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Systems Engineering Division

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Index of Aerospace Mechanisms Symposia Proceedings 1-19

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PREFACE

This index cross-references the papers presented at the Aerospace Mechanisms Symposia and documented in the symposia proceedings. This is the first compilation of this index, covering papers presented in the first through nineteenth symposia, from 1966 to 1985.

These symposia are devoted to the problems of design, fabrication, test, and operational use of aerospace mechanisms and provide an international forum for technical interchange between personnel in the field of mechanisms technology. While many of the papers contained in the proceedings deal with aircraft and nonspace-mechanism design problems, most of the papers presented chronicle developments in the manned and unmanned space programs.

The Aerospace Mechanism Symposium is jointly sponsored by NASA, the California Institute of Technology, and Lockheed Missiles and Space Co. (LMSC), Inc., and is held yearly at various NASA Centers.

The preparation of this index was initiated by Mr. Alfred L. Rinaldo (LMSC, retired) who served as Operations Chairman for the symposium for its first 17 years. It is hoped that this index will further the goals of the Aerospace Mechanisms Symposium in disseminating mechanisms design technology and "lessons learned" in mechanisms development and test.

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TABLE OF CONTENTS

Preface	iii
Use of this Index	vii

(Following Dividers)

Listing by Symposium	1
Listing by Title	2
Listing by Author	3
Listing by Subject	4
Listing by Project	5
Keywords	6
Prior Symposia Information	7

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USE OF THIS INDEX

This index has been organized into five major sections: an index by symposium, by title, by author, by subject, and by project. Each section is separated by a divider and is individually paginated. Users will probably find the subject index to be most useful in that papers have been cross-referenced by key words. For the first through seventeenth symposia, key words were simply extracted from the title of the individual paper. Therefore the accuracy and usefulness of these key words depend on how well the paper title describes the material contained in the paper. In most cases the correlation is good; however, in some cases individual papers may not be listed under the expected key word. For this reason a list of all the key words used is included to assist the user in identifying other key words that may pertain to the subject of interest. For papers contained in the eighteenth and nineteenth proceedings, key words were assigned based on the actual technical content of the papers.

Also beginning with the eighteenth symposium is a cross-reference by project. A user interested in mechanisms developed for a particular project may find this useful, although papers published prior to the eighteenth symposium are not listed. In addition, some papers, particularly those dealing with basic technology, are generic in nature and would naturally not appear under a project listing. Beginning with the twentieth symposium, authors will specify their own key words and project identifier, making future publications of this index increasingly useful.

Once a paper of interest has been found using one of the five cross-references, the proceedings for that symposium may be ordered by referring to the Conference Publication number and address contained in the Prior Symposia Listing.

1. LISTING BY SYMPOSIUM

INDEX OF SYMPOSIUM PAPERS - AEROSPACE MECHANISMS SYMPOSIUM (AMS)
(ALPHABETICAL BY SYMPOSIUM)

FIRST AEROSPACE MECHANISMS SYMPOSIUM; MAY 19-20, 1966; UNIVERSITY OF SANTA CLARA, SANTA CLARA, CALIFORNIA

ANALYSIS OF A SATELLITE ANGLE-OF-ATTACK SENSOR; Frye, W. E.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 277

ANALYSIS OF AEROSPACE IMPACT PROBLEMS; Hayes, D., Cawood, C. and Kertesz, T.; University of Santa Clara; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 123

COMPRESSION SPRINGS AT ELEVATED TEMPERATURES; Siegel, M. J.; University of Southern California; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 223

COMPRESSION-SPRING SEPARATION MECHANISMS; Harrington, T. G.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 137

CONICAL PIVOT BEARINGS FOR SPACE APPLICATIONS; Herzl, G. G.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 203

DEVELOPMENT OF A PASSIVE DAMPER FOR A GRAVITY-GRADIENT STABILIZED SPACECRAFT; Buerger, E. J.; General Electric Company, Spacecraft Department; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 297

DRAG MAKE-UP SENSOR FOR LOW-ALTITUDE SATELLITES; Davis, W. R.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 91

EXPLOSIVELY ACTUATED (PYROMECHANICAL) DEVICES FOR SPACECRAFT APPLICATIONS; Benedict, A. G.; Jet Propulsion Laboratory, California Institute of Technology; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 285

EXTENDIBLE BOOM DEVICE; Gamble, W. C.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 27

EXTENDIBLE STRUCTURE FOR SOLAR ELECTRIC POWER IN SPACE; Lindberg, D. E.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 311

FLIGHT-PROVEN MECHANISMS ON THE NIMBUS WEATHER SATELLITE; Charp, S. and Drabek, S.; General Electric Company, Spacecraft Department; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p.1

GEMINI/AGENDA DOCKING MECHANISM; Meyer, P. H.; McDonnell Aircraft Corporation; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 81

HIGH-IMPACT-RESISTANT MECHANISMS; Adams, J. L.; Jet Propulsion Laboratory, California Institute of Technology; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 181

LOW-TEMPERATURE EFFECTS ON MATERIALS FOR AEROSPACE MECHANISMS; Henry, W. E.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 167

MARINER IV SCIENCE PLATFORM STRUCTURE AND ACTUATOR DESIGN, DEVELOPMENT, AND PERFORMANCE; Coyle, G. and Floyd, E.; Jet Propulsion Laboratory, California Institute Of Technology; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 145

MARINER-IV STRUCTURAL DAMPERS; Lyman, P. T.; JET PROPULSION LABORATORY, California Institute Of Technology; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p.37

MECHANISM FOR SPACECRAFT REFLECTANCE-DEGRADATION EXPERIMENT; Cornish, E., Kissinger, R. K. and McCabe, G. P.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 51

NONCONTAMINATING SEPARATION SYSTEMS FOR SPACECRAFT (PROJECT ZIP); Leaman, A. B.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 61

NONMAGNETIC EXPLOSIVE-ACTUATED INDEXING DEVICE; Bauernschub, J. P. Jr.; NASA Goddard Space Flight Center; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 157

PYROTECHNIC SHOCK ISOLATION MECHANISM; Ikola, A. L.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 189

SIMPLIFIED SPACE MECHANISMS USING SUBLIMING SOLIDS; Kindsvater, H. M.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 239

SOLAR CELL GRAVITY-STABILIZATION BOOMS; Osborne, B. D.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 109

SPACECRAFT HYDRAULIC TIMERS; Trimble, H. D.; Jet Propulsion Laboratory, California Institute of Technology; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 101

VARIABLE-VISCOSITY, VARIABLE-STIFFNESS DAMPERS, CONCEPT FOR THE DESIGN OF; Lohr, J. J.; NASA Ames Research Center; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 263

VIBRATION ISOLATION MOUNT; Reed, R. E. Jr.; NASA Ames Research Center; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 73

ZERO-G TESTING OF SATELLITE INSPECTION MECHANISMS; Lahde, R. N., Lockheed Missiles & Space Company, and Lebold, J. W., Lockheed-California Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 251

SECOND AEROSPACE MECHANISMS SYMPOSIUM; MAY 4-5, 1967; UNIVERSITY OF SANTA CLARA, SANTA CLARA, CALIFORNIA

BEHAVIOR OF LUBRICATION SYSTEM COMPONENTS IN A VACUUM ENVIRONMENT;

Buckley, D. H.; NASA Lewis Research Center; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 111

BI-STEM - A NEW TECHNIQUE IN UNFURLABLE STRUCTURES; MacNaughton, J. D.,

Weyman, H. N., and Groskopf, E.; Special Projects and Applied Research Division, The de Havilland Aircraft of Canada, Limited; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 139

COLLET RELEASE MECHANISM; Ramos, D. O.; General Electric Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 85

DEPLOYABLE SOLAR ARRAY; Berry, T.; Fairchild Hiller Corporation; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 51

DESIGN OF MECHANICAL LINKWORK FOR AEROSPACE; Roth, B.; Stanford University; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 25

DESPINNING THE ATS SATELLITE; Dallas, J. P.; Hughes Aircraft Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 147

DOUBLE-ACTING, ROTARY-SOLENOID-ACTUATED SHUTTER; Ford, A. G.; Jet Propulsion Laboratory, California Institute of Technology; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 131

INTEGRATED ROCKET SPIN-UP LAUNCH MECHANISM; Hillan, J.; Lockheed Missiles & Space Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 101

LATCH DIAPHRAGM RELEASE MECHANISM; Gibbons, G., Ventura, A. and Kaeler, A.; Lockheed Missiles & Space Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 9

LUBRICATION AS PART OF TOTAL DESIGN; Clauss, F. J.; Lockheed Missiles & Space Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 121

LUNAR MODULE ALIGHTMENT SYSTEM; Hilderman, R. A., Mueller, W. H. and Mantus, M.; Grumman Aircraft Engineering Corporation; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 67

LUNAR ORBITER PHOTO-SUBSYSTEM MECHANISMS; Bradley, G.; The Boeing Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 33

MECHANICAL DESIGN OF SCANNING INSTRUMENTS; Bunson, G. A.; Santa Barbara Research Center; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 77

NEW CLOSED TUBULAR EXTENDIBLE BOOM; Rennie, B. B.; The Boeing Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 163

SELF-DESTRUCT CHARGE ORDNANCE COMPONENT OF THE AGENDA D VEHICLE SELF-DESTRUCT SYSTEM; Smith, A. H.; Lockheed Missiles & Space Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 171

SPACE MOLECULAR SINK SIMULATOR FACILITY; Stephens, J. B.; Jet Propulsion Laboratory, California Institute of Technology; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 1

STEPPER MOTOR FOR THE SURVEYOR SPACECRAFT; Glassow, F. A.; HUGHES AIRCRAFT COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 15

SURFACE INTERACTION BETWEEN ALUMINUM SINGLE CRYSTALS AT 10^{-10} TORR; Frisch, J.; University of California, Berkeley; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 125

SURVEYOR TELEVISION MECHANISM; Gudikunst, J. B.; Hughes Aircraft Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 59

SURVEYOR THERMAL SWITCH; Deal, T. E.; Hughes Aircraft Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 93

WELD-ALLOY; McDonald, J. C. and Olsen, J. C.; Lockheed Missiles & Space Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 155

YO-YO DESPIN MECHANISMS; Bush, K. S.; NASA Langley Research Center; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 41

THIRD AEROSPACE MECHANISMS SYMPOSIUM; MAY 23-24, 1968; JET PROPULSION
LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA

- BALL-LOCK-BOLT SEPARATION SYSTEM; Moulton, J. I.; Quantic Industries, Pelmec Division; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 197
- BRUSHLESS DESPIN DRIVE AND CONTROL FOR A COMMUNICATION SATELLITE ANTENNA; Fleming, M. F., Philco-Ford Corporation, and Phinney, D. D., Ball Brothers Research Corporation; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 3
- CONTROLLED-LEAKAGE SEALING OF BEARINGS FOR FLUID LUBRICATION IN A SPACE VACUUM ENVIRONMENT; Silversher, H. I.; Lockheed Missiles & Space Company; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 93
- DEVELOPMENT OF BEARINGS FOR NUCLEAR REACTORS IN SPACE; Kurzeka, W. J.; Atomics International; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 85
- DEVELOPMENT OF GRAVITY-GRADIENT DAMPERS; Johnson, M. E., and Marx, S. H.; Space and Reentry Systems Division, Philco-Ford Corporation; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 211
- DEVELOPMENT PHILOSOPHY FOR SNAP MECHANISMS; Steel, O. P., III; Atomics International; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 45
- EVALUATION OF DRY LUBRICANTS AND BEARINGS FOR SPACECRAFT APPLICATIONS; Kirkpatrick, D. L., and Young, W. C.; General Electric Company; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 77
- FLEXURAL PIVOTS FOR SPACE APPLICATIONS; Seelig, F. A.; The Bendix Corporation, Fluid Power Division; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 9
- FLUID THERMAL ACTUATOR; Shepherd, B. A., and Johnson, K. R.; Radio Corporation of America, Astro-Electronics Division; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 203
- HIGH-RESPONSE ELECTROMECHANICAL CONTROL ACTUATOR; Goldshine, G. D. and Lacy, G. T.; General Dynamics Corporation; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 19

INTRODUCTION TO ROLAMITE; Ford, J. P.; Sandia Corporation; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 153

LUBRICATION OF DC MOTORS, SLIP RINGS, BEARINGS, AND GEARS FOR LONG-LIFE SPACE APPLICATIONS; Perrin, B. J. and Mayer, R. W.; Ball Brothers Research Corporation; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 65

MECHANICAL ASPECTS OF THE LUNAR SURFACE MAGNETOMETER; Schwartz, W. and Nelms, W. L.; Philco-Ford Corporation, Space and Reentry Systems Division; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Chmn. G. G. Herzl, 23-24 May 1968; p. 133

MECHANICAL DESIGN OF THE SPIN-SCAN CLOUD CAMERA; Upton, D. T.; Santa Barbara Research Center; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 117

MECHANICAL SUSPENSIONS FOR SPACE APPLICATIONS; Herzl, G. G.; Lockheed Missiles & Space Company; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 101

MECHANISM DESIGN-A TEST LABORATORY VIEWPOINT; Haley, J. M.; Lockheed Missiles & Space Company; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 189

MECHANISMS FOR RESTRAINING AND DEPLOYING A 50-KW SOLAR ARRAY; Haynie, T. and Kriger, A.; The Boeing Company; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 55

MINIMUM-WEIGHT SPRINGS; Fuchs, H. O.; Stanford University; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 27

NONMAGNETIC, LIGHTWEIGHT OSCILLATING ACTUATOR; McCarthy, D. K.; NASA Goddard Space Flight Center; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 163

PASSIVE SOLAR PANEL ORIENTATION SERVOMECHANISM; Samuels, R. L.; TRW Systems Group; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 125

RADIO ASTRONOMY EXPLORER 1500-FT-LONG ANTENNA ARRAY; Angulo, E. D., NASA Goddard Space Flight Center, and Kamachaitis, W. P., Fairchild Hiller Corporation; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 37

SURVEYOR SHOCK ABSORBER; Sperling, F. B.; Jet Propulsion Laboratory, California Institute of Technology; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 171

TORSION WIRE DAMPING SYSTEM FOR THE DODGE SATELLITE; Howard, D. M.; Applied Physics Laboratory, The John Hopkins University; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 145

TORSIONALLY RIGID AND THERMALLY STABLE BOOM; Rushing, F. C., Simon, A. B., and Denton, C. I.; Westinghouse Defense and Space Center, Aerospace Division; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 139

UNIQUE MECHANISM FEATURES OF ATS STABILIZATION BOOM PACKAGES; Lohnes, R. A., Matteo, D. N., General Electric Company, and Grimshaw, E. R., Spar Aerospace Products, Ltd.; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 179

FOURTH AEROSPACE MECHANISMS SYMPOSIUM; MAY 22-23, 1969; UNIVERSITY OF SANTA CLARA, SANTA CLARA, CALIFORNIA

ANTENNA FOR THE ATS F AND G SYNCHRONOUS SATELLITE, 30-FT-DIAM ; Carman, R. R. and Rottmayer, E.; Goodyear Aerospace Corporation; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 143

APOLLO COMMAND MODULE SIDE ACCESS HATCH SYSTEM; Walkover, L. J., Hart, R. J., and Zosky, E. W.; North American Rockwell Corporation; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 157

CHECKLIST FOR BOOM SELECTION; Talcott, J. M.; Fairchild Hiller Corporation; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Chmn. B. E. Tingling, 22-23 May 1969; p. 51

DEPLOYMENT FIXTURE FOR THE SIMULATED ZERO-GRAVITY TESTING OF A LARGE-AREA SOLAR ARRAY; Lackey, J. A.; The Boeing Company; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 83

DESIGN OF AEROSPACE MECHANISMS-A CUSTOMER'S OPINION; McSherry, Maj. J. C.; Detachment 6, Office of Aerospace Research, United States Air Force; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 91

DESPIN ASSEMBLY FOR THE TACOMSAT COMMUNICATIONS SATELLITE; Meeks, C. R.; Hughes Aircraft Company; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Chmn. H. Frankel, Session III, 22-23 May 1969; p. 95

DRAGLINE SAMPLE-ACQUISITION MECHANISM; Alexander, H. M.; Jet Propulsion Laboratory, California Institute of Technology; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 149

DYNAMICS OF HUMAN SELF-ROTATION; Kane, T. R.; Stanford University; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 27

EVOLUTION OF A SPACECRAFT ANTENNA SYSTEM; Kampinsky, A.; NASA Goddard Space Flight Center; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 13

FLOW-CONTROL VALVE WITHOUT MOVING PARTS; Owens, W. L. Jr.; Lockheed Missiles & Space Company; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 115

HARD-WIRE ROTATING COUPLING; Wrench, E. H. General Dynamics Corporation, and Veillette, L. NASA Goddard Space Flight Center; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 33

- MARINER MARS 1969 SCAN ACTUATOR; Perkins, G. S.; Jet Propulsion Laboratory, California Institute of Technology; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 103
- NUTATION DAMPER FOR A SPINNING SATELLITE; Totah, N. I. and Rollins, R.; Philco-Ford Corporation, Space and Reentry Systems Division; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 135
- SHUTTER AND FILTER-CHANGING MECHANISM, COMBINATION; Ford, A. G. and Cutts, J. A.; Jet Propulsion Laboratory, California Institute of Technology; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 75
- SOIL SAMPLER DEVELOPMENT FOR UNMANNED PROBES; Bachle, W. H.; Philco-Ford Corporation, Space and Reentry Systems Division; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 3
- SOME THOUGHTS ON GEARHEAD ELECTRIC MOTORS FOR SPACECRAFT BOOM DEPLOYMENT MECHANISMS; MacNaughton, J.; Spar Aerospace Products, Ltd.; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session II, Chmn. B. E. Tingling, 22-23 May 1969; p. 47
- SPACECRAFT BOOMS: PRESENT AND FUTURE; Herzl, G. G.; Lockheed Missiles & Space Company; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session II, Chmn. B. E. Tingling, 22-23 May 1969; p. 55
- SPACECRAFT MECHANISM TESTING IN THE MOLSINK FACILITY; Stephens, J. B.; Jet Propulsion Laboratory, California Institute of Technology; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 19
- STATE-OF-THE-ART MATERIALS AND DESIGN FOR SPACECRAFT BOOMS; Staugaitis, C.; NASA Goddard Space Flight Center; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session II, Chmn. B. E. Tingling, 22-23 May 1969; p. 43
- THERMAL HELIOTROPE: A PASSIVE SUN-TRACKER; Byxbee, R. C. and Lott, D. R.; Lockheed Missiles & Space Company; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 127
- THREE SIMPLE MECHANISMS TO SOLVE UNIQUE AEROSPACE PROBLEMS; Groskopf, E.; Spar Aerospace Products, Ltd.; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 121

FIFTH AEROSPACE MECHANISMS SYMPOSIUM; JUNE 15-16, 1970; NASA GODDARD SPACE
FLIGHT CENTER, GREENBELT, MARYLAND

ACCELERATED VACUUM TESTING OF LONG LIFE BALL BEARINGS AND SLIPRINGS;

Meeks, C. R., Christy, R. I. and Cunningham, A. C.; Hughes Aircraft Company; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 127

AEROSPACE VEHICLE SEPARATION MECHANISMS SELECTION, DESIGN, AND USE

CONSIDERATIONS; Gluckman, I. B.; Lockheed Missiles & Space Company; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 17

APOLLO 11 LASER RANGING RETRO-REFLECTOR ARRAY; McCullough, J. E.;

Arthur D. Little, Inc.; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 171

APOLLO DOCKING SYSTEM; Bloom, K. A. and Campbell, G. E.; North American

Rockwell Corporation; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 3

DAMPER DESIGN FROM A STRUCTURAL ENGINEER'S POINT OF VIEW; Chen, J. C.; Jet

Propulsion Laboratory, California Institute of Technology; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 59

DEVELOPMENT OF PAYLOAD SUBSYSTEM-PRIMATE MISSION-BIOSATELLITE PROGRAM;

Hall, J. F. Jr.; General Electric Company, Reentry and Environmental Systems Division; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 177

DOCKING-MECHANISM ATTENUATOR WITH ELECTROMECHANICAL DAMPER;

Syromyatnikov, V. S.; Institute for Machine Technology USSR; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 43

DYNAMIC BEHAVIOR OF THE MERCURY DAMPER; Crout, P. D., and Newkirk, H. L.;

U.S. Naval Weapons Center; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 9

EFFECTS OF ENERGY DISSIPATION IN THE BEARING ASSEMBLIES OF DUAL-SPIN

SPACECRAFT; Scher, M. P.; TRW Systems Group; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 143

INTRODUCTION TO PASSIVE NUTATION DAMPERS; Herzl, G. G.; Lockheed Missiles & Space Company; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 73

LIGHTWEIGHT BIMETALLIC ACTUATOR FOR SPACECRAFT THERMAL CONTROL; Schilling, K. L.; RCA Astro-Electronics; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 165

LOW NUTATION-RATE DAMPERS; Tossman, B. E.; Applied Physics Laboratory, The John Hopkins University; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 97

MARINER MARS 1971 GIMBAL ACTUATOR; Perkins, G. S.; Jet Propulsion Laboratory, California Institute of Technology, Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 185

MEETING THE CHALLENGE OF A 50,000-HOUR-LIFETIME REQUIREMENT; Vest, C. E. and Studer, P. A.; NASA Goddard Space Flight Center; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 159

METAL-SILICATE FRICTION IN ULTRAHIGH VACUUM; Ofodile, E. I., E. I. Du Pont de Nemours and Company, and Frisch, J., University of California at Berkeley; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 149

MOTOR CANISTER DESIGNED FOR PROLONGED OPERATION IN SPACE; Wells, A.; Spar Aerospace Products, LTD.; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 137

NUTATION DAMPERS FOR MANNED SPACECRAFT; Kurzhals, P. R.; NASA Langley Research Center; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 103

NUTATION DAMPERS FOR SINGLE-SPIN SATELLITES; Fedor, J. V.; NASA Goddard Space Flight Center; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 83

NUTATION-DAMPER DESIGN FOR DUAL-SPIN SPACECRAFT; Spencer, T. M.; Ball Brothers Research Corporation; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 87

RELEASE MECHANISM WITH MECHANICAL REDUNDANCY; Paradise, J. J.; Lockheed Missiles & Space Company; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 121

RESPONSE CHARACTERISTICS OF A THERMAL-HELIOTROPE SOLAR-ARRAY ORIENTATION DEVICE; Morse, F. H.; Department of Mechanical Engineering, University of Maryland; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 33

ROTARY RELAY FOR SPACE POWER TRANSFER; Haynie, H. T.; The Boeing Company Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 25

SCANNING MIRROR SYSTEM FOR THE APOLLO TELESCOPE MOUNT ULTRAVIOLET SPECTROHELIOMETER; Highman, C. O.; Ball Brothers Research Corporation; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 113

THERMOMECHANICAL PISTON PUMP DEVELOPMENT; Sabelman, E. E.; Jet Propulsion Laboratory, California Institute of Technology; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 65

SIXTH AEROSPACE MECHANISMS SYMPOSIUM; SEPTEMBER 9-10, 1971; NASA AMES RESEARCH CENTER, MOFFETT FIELD, CALIFORNIA

- ANTENNA DRIVE SYSTEM FOR THE NIMBUS SATELLITE; Wedlake, G. J. and Loudon, J. D.; Ball Brothers Research Corporation; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 117
- DOCKING DEVICES FOR SOYUZ-TYPE SPACECRAFT; Syromyatnikov, V. S.; USSR; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 143
- EVALUATION OF MECHANISMS RETURNED FROM SURVEYOR 3; Jones, J. R., Quinn, W. J., and Bingemann, K. G. Jr.; Hughes Aircraft Company; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 1
- GAS-POWERED REENTRY BODY ERECTION MECHANISM; Muraca, R. J. and Hedgepeth, K. D.; NASA Langley Research Center; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 101
- GODDARD HELICAL TAPE RECORDER; Martin, F. T. and McCarthy, D. K.; NASA Goddard Space Flight Center; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 89
- HEAT PIPES FOR SPACECRAFT TEMPERATURE CONTROL - THEIR USEFULNESS AND LIMITATIONS; Ollendorf, S. and Stipandic, E.; NASA Goddard Space Flight Center; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 33
- INTELSAT IV ANTENNA POSITIONER; Glassow, F. A.; Hughes Aircraft Company; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 109
- LUNAR ROCK SPLITTER/CAN SEALER; Johnson, K. G.; Jet Propulsion Laboratory, California Institute of Technology; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 73
- NASA-ARC 36-INCH AIRBORNE INFRARED TELESCOPE; Mobley, R. E. and Cameron, R. M.; NASA Ames Research Center; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 81
- NEUTER DOCKING-MECHANISM STUDY; Jones, J. C.; NASA Manned Spacecraft Center; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 43

PASSIVE PENDULUM WOBBLE DAMPER FOR A "LOW SPIN-RATE" JUPITER FLYBY SPACECRAFT;
Fowler, R. C.; TRW Systems; Sixth AMS, NASA TM X-2557, Held at NASA Ames
Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 135

PIONEER F/G APPENDAGE DEPLOYMENT; Hesprich, G. V.; TRW Systems; Sixth AMS,
NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn.
G. G. Herzl, 9-10 September 1971; p. 57

PIONEER F/G FEED MOVEMENT MECHANISM; Acker, R. M.; TRW Systems Group; Sixth
AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn.
G. G. Herzl, 9-10 September 1971; p. 21

RADAR AUGMENTATION DEVICE; Riedel, J. K.; Lockheed Missiles & Space Company;
Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen.
Chmn. G. G. Herzl, 9-10 September 1971; p. 65

ROCKET NOZZLE AUTOMATIC RELEASE SYSTEM; Kimball, J. B.; Lockheed Missiles &
Space Company; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research
Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 51

SOLID-STATE FILM TRANSPORT; Davis, C. M., TELEDYNE RYAN AERONAUTICAL, and
D. B. Learish, AFAL/RSO; Sixth AMS, NASA TM X-2557, Held at NASA Ames
Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 127

SPACE QUALIFIED RADIATION SOURCE HOLDER; Polaski, L. J. and Zabower, H. R.;
NASA Ames Research Center; Sixth AMS, NASA TM X-2557, Held at NASA Ames
Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 9

SPHERE LAUNCHER; Reed, W. B.; Lockheed Missiles & Space Company; Sixth AMS,
NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn.
G. G. Herzl, 9-10 September 1971; p. 13

TEXTILE MECHANICAL ELEMENTS IN AEROSPACE VEHICLE PARACHUTE SYSTEMS;
Lindgren, M. J. and French, K. E.; Lockheed Missiles & Space Company;
Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen.
Chmn. G. G. Herzl, 9-10 September 1971; p. 27

TORQUE BALANCE CONTROL MOMENT GYROSCOPE ASSEMBLY FOR ASTRONAUT MANEUVERING;
Cunningham, D. C. and Driskill, G. W.; Sperry Rand Corporation; Sixth AMS,
NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn.
G. G. Herzl, 9-10 September 1971; p. 121

SEVENTH AEROSPACE MECHANISMS SYMPOSIUM; SEPTEMBER 7-8, 1972; NASA MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 14 DOCKING ANOMALY; Langley, R. D.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 191

APOLLO 15 DEPLOYABLE BOOM ANOMALY; White, R. D.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 15

APOLLO 15 MAIN-PARACHUTE FAILURE; Arabian, D. D. and Mechelay, J. E.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 137

APOLLO COUCH ENERGY ABSORBERS; Wesselski, C. J. and Drexel, R. E.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 157

APOLLO LUNAR MODULE LANDING GEAR; Rogers, W. F.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 123

DOCKING SYSTEM OF ANDROGYNOUS AND PERIPHERAL TYPE; Syromyatnikov, V. S.; Academy of Sciences, Moscow, USSR; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 27

DYNAMIC ANALYSIS OF APOLLO-SALYUT/SOYUZ DOCKING; Schliesing, J. A.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 47

DYNAMIC TESTING OF DOCKING SYSTEM HARDWARE; Dorland, W. D.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 203

FLEXIBLE SOLAR-ARRAY MECHANISM; Olson, M. C.; Hughes Aircraft Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 233

FLYING EJECTION SEAT; Hollrock, R. H. and Barzda, J. J.; Kaman Aerospace Corporation; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 275

FOLDABLE 4.27-METER (14 FOOT) SPACECRAFT ANTENNA; Starkey, D. J.; JET Propulsion Laboratory, California Institute of Technology; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 37

FRANGIBLE GLASS CANISTERS; Seifert, R.; Aerospace Corporation; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 91

LIQUID PUMP FOR ASTRONAUT COOLING; Carson, M. A.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 181

LUNAR CART; Miller, G. C.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 169

LUNAR ROVING VEHICLE DEPLOYMENT MECHANISM; Hunter, A. B. and Spacey, B. W.; The Boeing Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 101

MANIPULATOR TECHNOLOGY FOR THE SPACE SHUTTLE; Burroughs, E. G.; Nasa Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 267

MECHANICAL COMPONENT SCREENING FOR SCANNER; Olson, J. L. and Quinn, W. J.; Hughes Aircraft Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 59

MECHANICALLY PRESTRESSED WINDOWS; Keathley, W. H.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 149

MECHANISM PROBLEMS; Riedel, J. K.; Lockheed Missiles & Space Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 3

PLY-TEAR WEBBING ENERGY ABSORBER; Stevens, G. W. H.; Royal Aircraft Establishment, England; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 215

RADIATIVE COOLER FOR SPACECRAFT; McCullough, J. E.; Arthur D. Little, Inc.; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 69

RADIOMETER-DEPLOYMENT SUBSYSTEM; Speight, K. M.; General Electric Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 111

SCANNING MIRROR FOR INFRARED SENSORS; Anderson, R. H. and Bernstein, S. B.; Lockheed Missiles & Space Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 251

SHUTTER MECHANISM FOR SPACECRAFT SPECTROPHOTOMETER; Weilbach, A.; Beckman Instruments, Inc.; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 95

SOLAR ARRAY, 928-M² (10,000 FT²); Lindberg, D. E.; Lockheed Missiles & Space Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 287

ZERO-GRAVITY TISSUE-CULTURE LABORATORY; Cook, J. E., Montgomery, P. O'B. Jr., and Paul, J. S.; University of Texas Southwestern Medical School; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 81

EIGHTH AEROSPACE MECHANISMS SYMPOSIUM; OCTOBER 18-19, 1973; NASA LANGLEY
RESEARCH CENTER, HAMPTON, VIRGINIA

- CONTROL VALVE: HOT GAS FAST RESPONSE; Hollis, J. T., Killebrew, A. B., and Smith, J. M.; McDonnell-Douglas Astronautics; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 237
- CURRENT EUROPEAN DEVELOPMENTS IN SOLAR PADDLE DRIVES; Bentall, R. H.; European Space Research and Technology Centre; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 49
- DESIGN AND DEVELOPMENT OF A MOMENTUM WHEEL WITH MAGNETIC BEARINGS; Veillette, L. J.; NASA Goddard Space Flight Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 131
- DEVELOPMENT AND TEST OF A LONG-LIFE, HIGH RELIABILITY SOLAR ARRAY DRIVE ACTUATOR; Kirkpatrick, D. L.; General Electric Company; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 69
- DEVELOPMENT OF AND DYNAMIC STUDIES CONCERNING A CABLE BOOM SYSTEM PROTOTYPE; Bring, G., European Space Research and Technology Centre, Schmidt, G., Dornier System, and Wyn-Roberts, D., British Aircraft Corporation; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. D. F. Welch, 18-19 October 1973; p. 15
- DEVELOPMENT OF LOW-SHOCK-PYROTECHNIC SEPARATION NUTS; Bement, L. J., NASA Langley Research Center, and Neubert, V. H., Pennsylvania State University; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 179
- DEVELOPMENT OF THE ELEVATION DRIVE ASSEMBLY FOR ORBITING SOLAR OBSERVATORY I (EYE); Sharpe, W. F., Olson, M. C., Hughes Aircraft Co., and Ward, B. W., NASA Goddard Space Flight Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 97
- GRAVITY EXERCISE SYSTEM; Brandt, W. E. and Clark, A. L.; Gyrotrim Corporation; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 311
- HELICOPTER VISUAL AID SYSTEM; Baisley, R. L.; Jet Propulsion Laboratory, California Institute of Technology; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 293

HIGH PERFORMING ACTUATION SYSTEM FOR USE WITH A LOUVER ARRAY FOR SATELLITE THERMAL CONTROL; Reusser, P. U. and Coebergh, J. A. F.; Messrs. Peter U. Reusser, LTD; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 85

LASER INITIATED EXPLOSIVE DEVICE SYSTEM; Yang, L. C., Menichelli, V. J. and Earnest, J. E.; Jet Propulsion Laboratory, California Institute of Technology; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. D. F. Welch, 18-19 October 1973; p. 25

METEOROID-DETECTOR DEPLOYMENT AND PRESSURIZATION SYSTEMS; Halliday, H. C.; NASA Langley Research Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 229

MODEL STUDIES OF CROSSWIND LANDING-GEAR CONFIGURATIONS FOR STOL AIRCRAFT; Stubbs, S. M. and Byrdsong, T. A.; NASA Langley Research Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 145

MODEL SUPPORT ROLL BALANCE AND ROLL COUPLING; Sharpes, R. E. and Carroll, W. J.; NASA Langley Research Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 155

MULTI-POINT RELEASE MECHANISM; Groskopf, E.; Spar Aerospace Products, Ltd.; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 329

NEW APPROACH TO LONG-LIFE-NONCONTACTING ELECTROMECHANICAL DEVICES; Devine, E. J.; NASA Goddard Space Flight Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 109

OPTICAL MODULE FOR THE INTEGRATED REAL-TIME CONTAMINATION MONITOR; Wrench, E. H.; General Dynamics, Convair Aerospace Division; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 271

OSO-7 SPECTROHELIOGRAPH MECHANISMS; Matteo, D. N.; General Electric Company; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. D. F. Welch, 18-19 October 1973; p. 1

POLYURETHANE RETAINERS FOR BALL BEARINGS; Christy, R. I.; Hughes Aircraft Company; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 317

PRINCIPAL AXES AND MOMENTS OF INERTIAL OF DEFORMABLE SYSTEMS; Kane, T. R.; Stanford University; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 37

- REQUIREMENT FOR DESIGNING ANALYZABLE SPACE DEPLOYABLE STRUCTURES;
Woods, A. A. Jr.; Lockheed Missiles & Space Company; Eighth AMS, NASA
TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn.
R. W. Lester, 18-19 October 1973; p. 351
- REVIEW OF THE TECHNOLOGY OF NONCONTACTING SYSTEMS; Studer, Philip A.;
NASA Goddard Space Flight Center; Eighth AMS, NASA TM X-2934, Held at NASA
Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October
1973; p. 117
- ROCKET ENGINE BIPROPELLANT VALVE PROBLEMS AND CURRENT EFFORTS; Fries, J.;
NASA Johnson Space Center; Eighth AMS, NASA TM X-2934, Held at NASA
Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October
1973; p. 213
- SPACECRAFT SEPARATION SYSTEMS MECHANISMS: CHARACTERISTICS AND PERFORMANCE
DURING HIGH-ALTITUDE FLIGHT TEST FROM NASA WOLLOPS STATION, VA; Pride, J.
D. Jr.; NASA Langley Research Center; Eighth AMS, NASA TM X-2934, Held at
NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19
October 1973; p. 165
- TELESCOPIC BOOMS FOR THE HAWKEYE SPACECRAFT; Anderson, R. D., University of
Iowa; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center,
VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 59
- TRANSDUCER TECHNOLOGY TRANSFER TO BIO-ENGINEERING APPLICATIONS; Duran, E. N.,
Lewis, G. W., Feldstein, C., Jet Propulsion Laboratory, California
Institute of Technology, and Corday, E., Meerbaum, S., Lang, Tzu-Wang,
Cedars-Sinai Medical Center; Eighth AMS, NASA TM X-2934, Held at NASA
Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October
1973; p. 283
- VIKING LANDER ANTENNA DEPLOYMENT MECHANISM; Hopper, K. H. and Monitor, D. S.;
Martin-Marietta Aerospace Corporation; Eighth AMS, NASA TM X-2934, Held at
NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19
October 1973; p. 257
- VIKING ORBITER 1975 ARTICULATION CONTROL ACTUATORS; Perkins, G. S.;
Jet Propulsion Laboratory, California Institute of Technology; Eighth AMS,
NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV,
Chmn. R. W. Lester, 18-19 October 1973; p. 335
- VIKING SURFACE SAMPLER; Seger, R. B., Martin-Marietta Aerospace Corporation,
and Gillespie, V. P., NASA Langley Research Center; Eighth AMS, NASA
TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn.
A. C. Bond, 18-19 October 1973; p. 245

NINTH AEROSPACE MECHANISMS SYMPOSIUM; OCTOBER 17-18, 1974; JOHN F. KENNEDY
SPACE CENTER, KENNEDY SPACE CENTER, FLORIDA

AEROSPACE LUBRICATION TECHNOLOGY TRANSFER TO INDUSTRIAL APPLICATIONS;

Loran, T. J. and Perrin, B.; Ball Brothers Research Corporation; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. E. E. Sechler, 17-18 October 1974; p. 45

AUTOMATED PARKING GARAGE SYSTEM MODEL; Collins, C. R. Jr.; Jet Propulsion

Laboratory, California Institute of Technology; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 387

CRAWLER TRANSPORTER STEERING AND JEL SYSTEM; Davis, V. L.; NASA John F.

Kennedy Space Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 359

DAMPER FOR GROUND WIND-INDUCED LAUNCH VEHICLE OSCILLATIONS; Bodle, J. G. and

Hackley, D. S.; General Dynamics Corporation, Convair Aerospace Division; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 313

DEVELOPMENT OF A BONE-FIXATION PROSTHETIC ATTACHMENT; Owens, L. J.; NASA

John F. Kennedy Space Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. A. Giovannetti, 17-18 October 1974; p. 281

DISPERSION DEVELOPMENT PROGRAM; Carlson, D. J., Lusardi, R. J., and

Phillips, W. H.; Chrysler Corporation, Defense Division; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. F. T. Martin, 17-18 October 1974; p. 175

FORWARD BEARING REACTOR MECHANISM FOR TITAN III/CENTAUR D-1T SPACE LAUNCH

VEHICLE; Jones, R. A.; General Dynamics Corporation, Convair Aerospace Division; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. K. A. Faymon, 17-18 October 1974; p. 1

HOLDDOWN ARM RELEASE MECHANISM USED ON SATURN VEHICLES; Phillips, J. D. and

Tolson, B. A.; NASA John F. Kennedy Space Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 335

IN-FLIGHT FRICTION AND WEAR MECHANISM; Devine, E. J. and Evans, H. E.;

NASA Goddard Space Flight Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. E. E. Sechler, 17-18 October 1974; p. 69

LOADCELL SUPPORTS FOR A DYNAMIC FORCE PLACE; Keller, C. W., Musil, L. M.,

Lockheed Missiles & Space Company, and Hagy, J. L., Shriners Hospital; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. A. Giovannetti, 17-18 October 1974; p. 265

- MAGNETICALLY SUSPENDED REACTION WHEELS; Sabnis, A. V., Stocking, G. L., and Dendy, J. B.; Sperry Flight Systems; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 211
- MANIPULATOR ARM FOR ZERO-G SIMULATIONS; Brodie, S. B., Grant, C., and Lazar, J. J.; Martin-Marietta Corporation, Denver Division; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. K. A. Faymon, 17-18 October 1974; p. 19
- MECHANICAL DESIGN OF AN IMAGING PHOTOPOLARIMETER FOR THE JUPITER MISSIONS (PIONEER 10 AND 11); Kodak, J. C.; Santa Barbara Research Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 199
- METAL WITH A MEMORY PROVIDES USEFUL TOOL FOR SKYLAB ASTRONAUTS; Smith, G. A.; Fairchild Space and Electronics Company; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. E. E. Sechler, 17-18 October 1974; p. 81
- MODERN MECHANISMS MAKE MANLESS MARTIAN MISSILE MOBILE - SPIN-OFF SPELLS STAIRCLIMBING SELF-SUFFICIENCY FOR EARTHBOUND HANDICAPPED; Sandor, G. N., Hassel, D. R. and Marino, P. F.; Rensselaer Polytechnic Institute; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. A. Giovannetti, 17-18 October 1974; p. 247
- MOUNT MECHANISMS FOR THE SATURN V/APOLLO MOBILE LAUNCHER AT JOHN F. KENNEDY SPACE CENTER; Balke, H.; Henry Balke Engineers; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 373
- NEW CONCEPT FOR ACTUATING SPACE MECHANISMS; Strange, W. C.; NASA Goddard Space Flight Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 187
- PERFORMANCE OF COMPONENTS IN THE SKYLAB REFRIGERATION SYSTEM; Daniher, C. E. Jr.; McDonnell-Douglas Astronautics Company; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. A. C. Bond, 17-18 October 1974; p. 115
- PRECISION SIX-METER DEPLOYABLE BOOM FOR THE MARINER-VENUS-MERCURY '73 MAGNETOMETER EXPERIMENT; Burdick, H. F.; NASA Goddard Space Flight Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. F. T. Martin, 17-18 October 1974; p. 161
- REFURBISHMENT OF THE CRYOGENIC COOLERS FOR THE SKYLAB EARTH RESOURCES EXPERIMENT PACKAGE; Smithson, J. C. and Luska, N. C.; Lyndon B. Johnson Space Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. A. C. Bond, 17-18 October 1974; p. 133

SKYLAB PARASOL; Kinzler, J. A.; NASA Lyndon B. Johnson Space Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. A. C. Bond, 17-18 October 1974; p. 99

SKYLAB TRASH AIRLOCK; Price, L. R.; McDonnell-Douglas Astronautics Company; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. A. C. Bond, 17-18 October 1974; p. 149

STRUCTURAL EVALUATION OF DEPLOYABLE AERODYNAMIC SPIKE BOOMS; Richter, B. J.; Lockheed Missiles & Space Company; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. K. A. Faymon, 17-18 October 1974; p. 31

STRUT WITH INFINITELY ADJUSTABLE THERMAL EXPANSIVITY AND LENGTH; Nelson, P. T.; TRW Systems Group; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. E. E. Sechler, 17-18 October 1974; p. 59

UNIQUE CHALLENGE: EMERGENCY EGRESS AND LIFE SUPPORT EQUIPMENT AT KSC; Wadell, H. M. Jr.; Rockwell International; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 295

USE OF COMPUTER MODELING TO INVESTIGATE A DYNAMIC INTERACTION PROBLEM IN THE SKYLAB TACS QUAD-VALVE PACKAGE; Hesser, R. J. and Gershman, R.; McDonnell-Douglas Astronautics Company; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 235

TENTH AEROSPACE MECHANISMS SYMPOSIUM; APRIL 22-23, 1976; JET PROPULSION
LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA

APOLLO-SOYUZ TEST PROJECT DOCKING SYSTEM; Swan, W. L. Jr.; Space Division,
Rockwell International; Tenth AMS, NASA TM 33-777, Held at the Jet
Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 26

ASSURANCE OF LUBRICANT SUPPLY IN WET-LUBRICATED SPACE BEARINGS;
Glassow, F. A.; Hughes Aircraft Company; Tenth AMS, NASA TM 33-777, Held
at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April
1976; p. 90

CAGING MECHANISM FOR A DRAG-FREE SATELLITE POSITION SENSOR; Hacker, R.,
Mathiesen, J. and DeBra, D. B.; Stanford University; Tenth AMS, NASA
TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host)
P. Bomke, 22-23 April 1976; p. 125

DESIGN EVOLUTION OF A LOW SHOCK RELEASE NUT; Otth, D. H., Jet Propulsion
Laboratory, California Institute of Technology, and Gordon, W., Hi-Shear
Corporation; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion
Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 175

DESIGN OF MECHANISMS TO LOCK/LATCH SYSTEMS UNDER ROTATIONAL OR TRANSLATIONAL
MOTION; Billimoria, R. P.; Planning Research Corporation; Tenth AMS, NASA
TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host)
P. Bomke, 22-23 April 1976; p. 104

DESIGN PRINCIPLES OF A ROTATING MEDIUM SPEED MECHANISM; Hostenkamp, R. G.,
Achtermann, E., Dornier System, and Bentall, R. H., European Space
Technology Centre; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion
Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 52

EVOLUTION OF THE VIKING LANDING GEAR; Pohlen, J. C., Maytum, B. D., Martin-
Marietta Corporation, and Ramsey, I. W., and Blanchard, U. J., NASA
Langley Research Center; Tenth AMS, NASA TM 33-777, Held at the Jet
Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 218

HELIOS EXPERIMENT 5 ANTENNA MECHANISM; Muller, E. J. W.; DFVLR-BPT;
Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA;
Chmn.(Host) P. Bomke, 22-23 April 1976; p. 133

HELIOS MECHANICAL DESPIN DRIVE ASSEMBLY FOR THE HIGH-GAIN ANTENNA REFLECTOR;
Muller, E. J. W.; DFVLR-BPT; Tenth AMS, NASA TM 33-777, Held at the Jet
Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 80

HIGH RESOLUTION, ADJUSTABLE, LOCKABLE LASER MIRROR MOUNT; Chadwick, C. H.;
GTE Sylvania, INC.; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion
Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 116

HIGH STABILITY DEPLOYABLE BOOM; Smith, G. A., Berry, T. G., and DiBiasi, L.; Fairchild Space and Electronics Company; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 143

MECHANICAL DESIGN OF NASA AMES RESEARCH CENTER VERTICAL MOTION SIMULATOR; Engelbert, D. F., Bakke, A. P., Chargin, M. K. and Vallotton, W. C.; NASA Ames Research Center; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 155

MOBILE PLANETARY LANDER UTILIZING ELASTIC LOOP SUSPENSION; Trautwein, W.; Lockheed Missiles & Space Company; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 11

PIN PULLER IMPACT SHOCK ATTENUATION; Auclair, G. F., Leonard, B. S., Robbins, R. E., and Proffitt, W. L.; Lockheed Missiles & Space Company; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 71

ROTARY MECHANISM FOR WIND TUNNEL STALL/SPIN STUDIES; Mancini, R. E., Matsuhira, D. S., and Vallotton, W. C.; NASA Ames Research Center; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 62

SHAPE OPTIMIZATION OF DISC-TYPE FLYWHEELS; Nizza, R. S.; Lockheed Missiles & Space Company; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 38

SIMULTANEOUS SPIN/EJECT MECHANISM FOR AEROSPACE PAYLOADS; Palmer, G. D., TRW Systems Group, and Banks, T. N., AVCO Systems Division; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 165

SOLAR ARRAY DRIVE SYSTEM; Berkopce, F. D., Sturman, J. C., NASA Lewis Research Center, and Stanhouse, R. W., General Electric Space Systems Organization; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 185

SPACE SHUTTLE TAIL SERVICE MAST CONCEPT VERIFICATION; Uda, R. T.; Planning Research Corporation; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 1

VIKING GC/MS MECHANISMS DESIGN AND PERFORMANCE; Chase, C. P. and Weilbach, O.; Beckman Instruments, Inc.; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 208

VISCOUS ROTARY VANE ACTUATOR/DAMPER; Harper, J. D., Martin-Marietta Corporation; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 198

ELEVENTH AEROSPACE MECHANISMS SYMPOSIUM; APRIL 28-29, 1977; NASA GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND

ACTIVE NUTATION DAMPER FOR SPACECRAFT; Abercrombie, A. and Flatley, Dr. W.; NASA Goddard Space Flight Center; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 139

APPLICATION OF INTERACTIVE COMPUTER GRAPHICS TECHNOLOGY TO THE DESIGN OF DISPERSAL MECHANISMS; Richter, B. J. and Welch, B. H.; Lockheed Missiles & Space Company; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. C. R. Meeks, 28-29 April 1977; p. 57

CARTRIDGE FIRING DEVICE DESIGNED FOR ATTACHMENT, RELEASE, AND EJECTION OF A SATELLITE; Pierron, L.; Avions Marcel Dessault, France; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. J. H. Parks, 28-29 April 1977; p. 67

CONCEPTION, BIRTH, AND GROWTH OF A MISSILE UMBILICAL SYSTEM; Nordman, G. W., Martin-Marietta Corporation; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. G. A. Smith, 28-29 April 1977; p. 203

DESIGN AND DEVELOPMENT OF A SOLAR ARRAY DRIVE; Rees, T., and Standing, J. H.; Hawker Siddeley Dynamics, Ltd., England; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. K. C. Curry, 28-29 April 1977; p. 223

DESIGN AND DEVELOPMENT OF THE SPACE SHUTTLE TAIL SERVICE MASTS; Dandage, S. R., Herman, N. A., Godfrey, S. E., and Uda, R. T.; PRC Systems Service Company; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. O. H. Fedor, 28-29 April 1977; p. 1

DEVELOPMENT OF A SATELLITE FLYWHEEL FAMILY OPERATING ON "ONE ACTIVE AXIS" MAGNETIC BEARINGS; Poubeau, P. C.; Aerospatiale, France; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. G. A. Smith, 28-29 April 1977; p. 185

DOCKING AND RETRIEVAL MECHANISM; Tewell, J. R., and Spencer, R. A.; Martin-Marietta Corporation; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 107

FLY-AWAY RESTRAINT PIN MECHANISM FOR THE ARMY'S PATRIOT MISSILE SYSTEM; Knight, F. W.; Martin-Marietta Aerospace; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. C. R. Meeks, 28-29 April 1977; p. 35

FOCUS DRIVE MECHANISM FOR THE IUE SCIENTIFIC INSTRUMENT; Divine, E. J. and Dennis, T. B. Jr.; NASA Goddard Space Flight Center; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. G. A. Smith, 28-29 April 1977; p. 213

GEOS 20M CABLE BOOM MECHANISM; Schmidt, G. K. and Suttner, K.; Dornier Systems GmbH, Germany; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 153

HIGH STRENGTH, TORSIONALLY RIGID, DEPLOYABLE AND RETRACTABLE MAST FOR SPACE APPLICATIONS; DiBiasi, L. and Kramer, R., Fairchild Space Co., Germantown, MD; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 3, Chmn. Dr. A. H. Hausrath; 5-6 May 1983; p. 171

LOW COST HIGH TEMPERATURE SUN TRACKING SOLAR ENERGY COLLECTOR; Perkins, G. S.; Jet Propulsion Laboratory, California Institute of Technology; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 163

MAGNETIC BEARING MOMENTUM WHEELS WITH MAGNETIC GIMBALLING CAPABILITY FOR 3-AXIS ACTIVE ATTITUDE CONTROL AND ENERGY STORAGE; Sindlinger, R. S.; Teldix GmbH, Germany; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. C. R. Meeks, 28-29 April 1977; p. 45

MAGNETOMETER DEVELOPMENT MECHANISM FOR PIONEER VENUS; Townsend, W. L.; Hughes Aircraft Company; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. O. H. Fedor, 28-29 April 1977; p. 23

MJS-77 MAGNETOMETER ACTUATOR; Stange, W. C.; NASA Goddard Space FLIGHT Center; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. J. H. Parks, 28-29 April 1977; p. 77

POSITIVE COMMANDABLE OILER FOR SATELLITE BEARING LUBRICATION; James, G. E.; TRW Systems Group; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. A. Giovannetti, 28-29 April 1977; p. 87

SCANNING AND FOCUSING MECHANISMS OF METOSAT RADIOMETER; Jouan, J.; Societe Matra, France; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. O. H. Fedor, 28-29 April 1977; p. 13

TORQUE-WHILE-TURNAROUND SCAN MIRROR ASSEMBLY; Starkus, C. J.; Hughes Aircraft Company; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 117

TRIDENT I THIRD STAGE MOTOR SEPARATION SYSTEM; Welch, B. H., Richter, B. J., and Sue, P.; Lockheed Missiles & Space Company; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. A. Giovannetti, 28-29 April 1977; p. 97

TWO-DIMENSIONAL OSCILLATING AIRFOIL TEST APPARATUS; Gibson, F. L., Hocker, A. J. Jr., and Matsuhira, D. S.; NASA Ames Research Center; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 177

VIKING MECHANISMS: A POST-MISSION REVIEW; Gillespie, V. P.; NASA Langley Research Center; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. K. C. Curry, 28-29 April 1977; p. 241

WEAR-RESISTANT BALL BEARINGS FOR SPACE APPLICATIONS; Boving, H., Hintermann, H. E., Hanni, W., LSRH, Switzerland; Bondivenne, E., ESA-MPO; and Boeto, M. and Conde, E., CNES, France; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 127

TWELFTH AEROSPACE MECHANISMS SYMPOSIUM; APRIL 27-28, 1978; NASA AMES RESEARCH CENTER, MOFFETT FIELD, CALIFORNIA

ADVANCED VEHICLE SEPARATION APPARATUS; Ospring, M. J. and Mancini, R. E.; NASA Ames Research Center; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session II, Chmn. R. K. Pefley, 27-28 April 1978; p. 131

ANTENNA, DEPLOYABLE 0.015-INCH DIAMETER WIRE; DeBiasi, L.; Fairchild Space & Electronics Company; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 35

DEPLOYABLE ANTENNA REFLECTOR; Palmer, W. B.; TRW Defense and Space Systems Group; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. F. T. Martin, 27-28 April 1978; p. 223

DEPLOYMENT MECHANISMS ON PIONEER VENUS PROBES; Townsend, W. L., Miyakawa, R. H., and Meadows, F. R.; Hughes Aircraft Company; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session II, Chmn. R. K. Pefley, 27-28 April 1978; p. 143

DEPLOYMENT/RETRACTION MECHANISM FOR SOLAR MAXIMUM MISSION HIGH GAIN ANTENNA SYSTEM; Bennett, N., Sperry Flight Systems, and Preiswerk, P., Astro Research Corporation; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. J. H. Parks, 27-28 April 1978; p. 201

DESIGN AND DEVELOPMENT OF A SELF-COMMUTATING STEPPER MOTOR; Dalley, K. R.; Marconi Space and Defense Systems, United Kingdom (presented by M. Briscoe, Spaceurop, The Netherlands); Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Jones, Jr., 27-28 April 1978; p. 25

DESIGN AND TESTING OF A MEMORY METAL ACTUATED BOOM RELEASE MECHANISM; Powley, D. G., British Aircraft Corporation, Ltd., and Brook, G. B., Fulmer Research Institute, Ltd.; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session II, Chmn. R. K. Pefley, 27-28 April 1978; p. 119

DESIGN FEATURES OF SELECTED MECHANISMS DEVELOPED FOR USE IN SPACELAB; Inden, Ing. W.; Erno Raumfahrttechnik GmbH, West Germany; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session II, Chmn. R. K. Pefley, 27-28 April 1978; p. 101

DEVELOPMENT OF A BEDREST MUSCLE STRESS APPARATUS; Booher, R., NASA JOHNSON SPACE CENTER, and Hooper, L., and Setzer, D. N., Nelson & Johnson Engineering, Inc.; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Jones, Jr., 27-28 April 1978; p. 3

ELEVEN-METER DEPLOYABLE TRUSS FOR THE SEASAT RADAR ANTENNA; Campbell, B. E., Astro Research Corporation and Hawkins, W., Ball Brothers Research Corporation; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 77

FINAL STATEMENT; Sechler, Dr. E. E.; CALTECH; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session IV, Chmn. M. Briscoe, 27-28 April 1978; p. 245

FOCAL PLANE TRANSPORT ASSEMBLY FOR THE HEAO-B X-RAY TELESCOPE; Brissette, R., Allard, P. D., Keller, F., Strizhak, E., Wester, E.; American Science and Engineering, Inc.; Twelfth AMS, NASA CP-2000, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 63

GEOS AXIAL BOOMS; Schmidt, G. K.; Dornier Systems GmbH, Germany; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. F. T. Martin, 27-28 April 1978; p. 211

HATCH LATCH MECHANISM FOR SPACELAB SCIENTIFIC AIRLOCK; ter Haar, Ir. G. R.; Fokker-VFW Space Division, Netherlands; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session II, Chmn. R. K. Pefley, 27-28 April 1978; p. 89

MARS PENETRATOR UMBILICAL; Barns, C. E.; NASA Ames Research Center; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 43

NASA-ARC 91.5-CM AIRBORNE INFRARED TELESCOPE; Mobley, R. E. and Brown, T. M.; NASA Ames Research Center; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session IV, Chmn. M. Briscoe, 27-28 April 1978; p. 233

PNEUMATIC PRELOADED SCANNING SCIENCE LAUNCH LATCH SYSTEM; Kievit, J. C.; Jet Propulsion Laboratory, California Institute of Technology; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. P. T. Lyman, 27-28 April 1978; p. 181

PRESENTATION OF THE DR. GEORGE HERZL AWARD FOR THE BEST PAPER; Ward, B. W. Jr.; NASA Goddard Space Flight Center; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session IV, Chmn. M. Briscoe, 27-28 April 1978; p. 243

SPACE SHUTTLE ORBITER SEPARATION BOLTS; Ritchie, R. S.; Transtechnology Corporation, Space Ordnance Systems Division; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. P. T. Lyman, 27-28 April 1978; p. 171

SPACE SHUTTLE PAYLOAD HANDLING ON THE LAUNCH PAD; Rado, A.; FMC Corporation; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. P. T. Lyman, 27-28 April 1978; p. 191

SPACE SHUTTLE SEPARATION MECHANISMS; Rogers, W. F., NASA Johnson Space Center; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. P. T. Lyman, 27-28 April 1978; p. 157

ULTRAHIGH RESOLUTION STOPPER MOTORS, DESIGN, DEVELOPMENT, PERFORMANCE, AND APPLICATION; Moll, H. and Roekl, G.; Teldix GmbH, Germany; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Jones, Jr., 27-28 April 1978; p. 13

VOYAGER MAGNETOMETER BOOM; Miller, D. C.; Jet Propulsion Laboratory, California Institute of Technology; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 51

THIRTEENTH AEROSPACE MECHANISMS SYMPOSIUM; APRIL 26-27, 1979; NASA LYNDON B. JOHNSON SPACE CENTER, HOUSTON, TEXAS

ADJUSTABLE HIGH PRECISION LATCHING HINGE, THE DESIGN OF; Ribble, J. W. and Wade, W. D.; Lockheed Missiles & Space Company; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. B. W. Ward, 26-27 April 1979; p. 127

AUTOMATIC IN-ORBIT ASSEMBLY OF LARGE SPACE STRUCTURES; Jacquemin, G. G.; Lockheed Missiles & Space Company; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session IV, Chmn. P. A. Lord, 26-27 April 1979; p. 283

DESIGN AND DEVELOPMENT OF A MOTION COMPENSATOR FOR THE RSRA MAIN ROTOR CONTROL; Jeffrey, P., and Huber, R.; United Technologies Corporation, Sikorsky Aircraft Division; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. H. Klages, 26-27 April 1979; p. 15

DESIGN OF A PIEZOELECTRIC SHAKER FOR CENTRIFUGE TESTING; Canclini, J. G., NASA Ames Research Center, and Henderson, J. M., University of California Davis; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. D. G. Wong, 26-27 April 1979; p. 59

DEVELOPMENT OF A BEAM BUILDER FOR AUTOMATIC FABRICATION OF LARGE COMPOSITE SPACE STRUCTURES; Bodle, J. G.; Convair Division, General Dynamics; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session IV, Chmn. P. A. Lord, 26-27 April 1979; p. 293

DEVELOPMENT OF DRIVE MECHANISM FOR COMMUNICATION SATELLITES; Schneider, A. C., and McLay, T. D.; General Electric, Space Division; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. B. W. Ward, 26-27 April 1979; p. 151

DEVELOPMENT OF THE TRIDENT I AERODYNAMIC SPIKE MECHANISM; Waterman, M. D., and Richter, B. J.; Lockheed Missiles & Space Company; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. D. G. Wong, 26-27 April 1979; p. 39

GIMBAL BEARING DESIGN CONSIDERATIONS AND FRICTION CONTROL; Kramer, N. R.; Hughes Aircraft Company; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. D. G. Wong, 26-27 April 1979; p. 71

HELICAL GRIP FOR THE CABLE CARS OF SAN FRANCISCO; Peyran, R. J.; NASA AMES RESEARCH CENTER; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. C. Darwin, 26-27 April 1979; p. 83

HYDRAZINE MONOPROPELLANT RECIPROCATING ENGINE DEVELOPMENT; Akkerman, J. W.; Lyndon B. Johnson Space Center; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. H. Klages, 26-27 April 1979; p. 1

IMPACT OF RARE EARTH COBALT PERMANENT MAGNETS ON ELECTROMECHANICAL DEVICE DESIGN; Fisher, R. L., Inland Motor-Specialty Products Division, and Studer, P. A., Goddard Space Flight Center; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. T. E. Shoup, 26-27 April 1979; p. 195

IUS THRUST VECTOR CONTROL (TVC) SERVO SYSTEM; Conner, G. E.; United Technologies, Chemical Systems Division; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session IV, Chmn. P. A. Lord, 26-27 April 1979; p. 271

LOAD PROPORTIONAL SAFETY BRAKE; Cacciola, M. J.; Boeing Commercial Airplane Company; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. C. Darwin, 26-27 April 1979; p. 95

MAGNETIC SPRING IN OSCILLATING MIRROR LINEAR SCANNER FOR SATELLITE CAMERA; Thomlin, G., Centre National D'Etudes Spatiales, and Fouche, C., Societe Europeenne De Propulsion; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. T. E. Shoup, 26-27 April 1979; p. 183

PAYLOAD INSTALLATION AND DEPLOYMENT AID FOR SPACE SHUTTLE ORBITER SPACECRAFT REMOTE MANIPULATOR SYSTEM; Ross, T. O.; Lyndon B. Johnson Space Center; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 235

RELIABILITY BREAKTHROUGH: AN ANTENNA DEPLOYMENT/POSITIONING MECHANISM WITH ELECTRICAL AND MECHANICAL REDUNDANCY; Olson, M. C., Briggs, L. W., and Pentecost, J. B.; Hughes Aircraft Company; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. B. W. Ward, 26-27 April 1979; p. 137

SPACE SHUTTLE ORBITER AFT HEAT SHIELD SEAL; Walkover, L. J.; Rockwell International, Space Systems Group; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 251

SPACE SHUTTLE ORBITER PAYLOAD BAY DOOR MECHANISMS; McAnally, B. M.; Rockwell International, Space Systems Group; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 261

SUMMARY OF THE ORBITER MECHANICAL SYSTEMS; Kiker, J. and Hinson, K.; Lyndon B. Johnson Space Center; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 219

TELESCOPIC JIB FOR CONTINUOUS ADJUSTMENT; Etzler, C. Ch.; Dornier System GmbH, Germany; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. D. G. Wong, 26-27 April 1979; p. 49

TESTS OF A PROTECTIVE SHELL PASSIVE RELEASE MECHANISM FOR HYPERSONIC WIND-TUNNEL MODELS; Puster, R. L. and Dunn, J. E.; NASA Langley Research Center; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. T. E. Shoup, 26-27 April 1979; p. 167

TWO AXIS POINTING SYSTEM FOR AN ORBITING ASTRONOMICAL INSTRUMENT; Turner, R. F. and Firth, J. G.; SRC Appleton Laboratory Astrophysics Reserach Division, Culham Laboratory; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. H. Klages, 26-27 April 1979; p. 27

UNFOLDING THE AIR VANES ON A SUPERSONIC AIR-LAUNCHED MISSILE; Wohltmann, M. and O'Leary, M. D.; Martin-Marietta AEROSpace; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. T. E. Shoup, 26-27 April 1979; p. 207

ZERO "G" FLUID DROP INJECTOR FOR THE DROP DYNAMICS MODULE SPACELAB EXPERIMENT; Hotz, G. M.; Jet Propulsion Laboratory, California Institute of Technology; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. C. Darwin, 26-27 April 1979; p. 111

FOURTEENTH AEROSPACE MECHANISMS SYMPOSIUM; MAY 1-2, 1980; NASA LANGLEY
RESEARCH CENTER, HAMPTON, VIRGINIA

ACTUATED LATCH PIN AND ITS DEVELOPMENT; Lawlor, P. J.; Institute for Industrial Research and Standards, Ireland; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 69

AIRPLANE WING LEADING EDGE VARIABLE CAMBER FLAP; Cole, J. B.; Boeing Commercial Airplane Company; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 225

AUTOMATED BEAM BUILDER; Muench, W. K.; Grumman Aerospace Corporation; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 247

BALL BEARING VERSUS MAGNETIC BEARING REACTION AND MOMENTUM WHEELS AS MOMENTUM ACTUATORS; Auer, W.; Teldix GmbH, Germany; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 79

CENTRIFUGAL REGULATOR FOR CONTROL OF DEPLOYMENT RATES OF DEPLOYABLE ELEMENTS; Vermalle, J. C.; Aerospatiale; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 93

DESIGN AND APPLICATION OF AN ANTENNA POSITIONER MECHANISM FOR INTELSAT-V SERIES COMMUNICATION SATELLITE; Szeto, B.; Ford Aerospace and Communication Corporation; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 311

DESIGN AND DEVELOPMENT OF THE QUAD REDUNDANT SERVOACTUATOR FOR THE SPACE SHUTTLE SOLID ROCKET BOOSTER THRUST VECTOR CONTROL; Lominick, J. M.; Marshall Space Flight Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 125

DESIGN OF AN ATMOSPHERIC SOUNDING RADIOMETER FOR THE GOES METEOROLOGICAL SATELLITE SYSTEM; Jensen, R. G.; Santa Barbara Research Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 289

DRAWER DRIVE FOR SPACE SHUTTLE VACUUM CANISTER; Werner, K. E.; Reentry Systems Division, General Electric Company; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 279

ECCENTUATOR - A NEW CONCEPT IN ACTUATION; Musgrove, R. G.; Vought Corporation; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 57

EMERGENCY IN-FLIGHT EGRESS OPENING FOR GENERAL AVIATION AIRCRAFT; Bement, L. J.; NASA Langley Research Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 173

F100 EXHAUST NOZZLE AREA CONTROL MECHANISM; Kozlin, J. R.; Government Products Division, Pratt and Whitney Aircraft Group; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 211

FLUID CIRCULATING PUMP OPERATED BY SAME INCIDENT SOLAR ENERGY WHICH HEATS ENERGY COLLECTION FLUID; Collins, E. R.; Jet Propulsion Laboratory, California Institute of Technology; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 47

FUEL/HYDRAULIC TRANSFER VALVE IMPROVES RELIABILITY OF ATLAS SPACE LAUNCH VEHICLE; Ogman, M.; General Dynamics Corporation, Convair Division; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 155

KU BAND DEPLOYED ASSEMBLY AND GIMBAL; Deal, T. E.; Hughes Aircraft Company; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 163

MAGSAT MAGNETOMETER BOOM; Smola, J. F., Radford, W. E., and Reitz, M. H.; Applied Physics Laboratory, The Johns Hopkins University; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 267

MANNED MANEUVERING UNIT LATCHING MECHANISM; Allton, C. S.; Lyndon B. Johnson Space Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 9

MECHANICAL ADAPTER FOR INSTALLING MISSION EQUIPMENT ON LARGE SPACE STRUCTURES; LeFever, A. and Totah, R. S.; Rockwell International Corporation, Space Operations and Satellite Systems Division; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 237

MECHANISMS OF THE SAMS EXPERIMENT FLOWN ON NIMBUS 7 WITH PARTICULAR REFERENCE TO THE 2 AXIS SCANNING MIRROR; Hadley, H.; Rutherford and Appleton Laboratories, Science Research Council U.K.; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 323

MECHANISMS OF UK RADIOMETERS FLOWN ON NIMBUS 5 AND 6 WITH PARTICULAR REFERENCE TO BEARINGS, PIVOTS AND LUBRICATION; Hadley, H.; Rutherford and Appleton Laboratories, Science Research Council U.K.; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 101

MECHANISMS TO DEPLOY THE TWO-STAGE IUS FROM THE SHUTTLE CARGO BAY, Haynie, H. T.; Boeing Aerospace Company; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 1

ORBITER DOOR CLOSURE TOOLS; Acres, W. R.; Lyndon B. Johnson Space Center;
Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA;
Chmn. C. W. Coale, 1-2 May 1980; p. 19

ORBITER EMERGENCY CREW ESCAPE SYSTEM; Lofland, W. W.; Lyndon B. Johnson Space
Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research
Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 33

POLARIMETER FOR THE HIGH RESOLUTION ULTRAVIOLET SPECTROMETER/POLARIMETER;
Calvert, J. A.; George C. Marshall Space Flight Center; Fourteenth AMS,
NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale,
1-2 May 1980; p. 303

PRECISION BEARING GIMBAL SYSTEM FOR THE TEAL RUBY PROGRAM; Lowry, C. H.;
ROCKWELL INTERNATIONAL, Space Systems Group; Fourteenth AMS, NASA CP-2127,
Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980;
p. 143

SPIN-RECOVERY PARACHUTE SYSTEM FOR LIGHT GENERAL-AVIATION AIRPLANES; Bradshaw,
C. F.; NASA Langley Research Center; Fourteenth AMS, NASA CP-2127, Held at
NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 195

TRIPLE-AXIS COMMON-PIVOT ARM WRIST DEVICE FOR MANIPULATIVE APPLICATIONS;
Kersten, L., University of Nebraska-Lincoln, and Johnston, J. D.; Marshall
Space Flight Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley
Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 111

FIFTEENTH AEROSPACE MECHANISMS SYMPOSIUM; MAY 14-15, 1981; NASA GEORGE C. MARSHALL SPACE FLIGHT CENTER, MARSHALL SPACE FLIGHT CENTER, ALABAMA

ANTENNA POINTING MECHANISM FOR LARGE REFLECTOR ANTENNAS; Heimerdinger, H.; Dornier System GmbH, Germany; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 253

BAPTA EMPLOYING ROTARY TRANSFORMERS, STEPPER MOTORS AND CERAMIC BALL BEARINGS; Auer, W.; Teldix, Germany; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 189

CLAMP MECHANISM FOR DEPLOYABLE THREE-TON PAYLOADS; Birner, R. and Ral H.; Messerschmitt-Bolkow-Blohm GmbH, Germany; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 375

COALIGNMENT OF SPACECRAFT EXPERIMENTS; Federline, R. E.; NASA Goddard Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 91

COMPARATIVE EVALUATION OF OPERABILITY OF LARGE SPACE STRUCTURES; Stokes, J. W.; NASA Marshall Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 357

DESIGN AND DEVELOPMENT OF AN OPTICAL SCANNING MECHANISM (OSMA) WITH MINIMUM MOMENTUM TRANSFER; Sainz, L. B. F., Herrera, E., Bajo, J. M., and Mallard, H. J.; Aerospacial, Sener, Spain; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 219

DEVELOPMENT OF A WINDOW PROTECTION ASSEMBLY FOR A SHUTTLE EXPERIMENT; Bradley, O. H. Jr.; NASA Langley Research Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 303

DRIVE MECHANISM FOR THE SHUTTLE/ORBITER EXTERNAL TANK PROPELLANT DISCONNECT; Thomas, E., Rockwell International Corporation, and Wilders, R., and Ulanovsky, J., Parker Hannifin Corporation; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 1

DRIVE UNIT FOR THE INSTRUMENT POINTING SYSTEM; Birner, R. and Roth M.; Messerschmitt-Bolkow-Blohm GmbH, Germany; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 263

FULLY REDUNDANT POWER HINGE FOR LANDSAT-D APPENDAGES; Mamrol, F. E. and Matteo D. N.; Space Division, General Electric Company; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 341

HIGH FREQUENCY DRIVE MECHANISM FOR AN ACTIVE CONTROLS SYSTEM AIRCRAFT CONTROL SURFACE; Smith, H. E.; Lockheed Georgia Company; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 173

LARGE SPACE DEPLOYABLE MODULAR ANTENNA REFLECTORS, THE DESIGN OF; Ribble, J. W. and Woods, A. A. Jr.; Lockheed Missiles & Space Company; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 147

LATCH MECHANISM FOR THE SPACE TELESCOPE; Schmidt, H. F.; Lockheed Missiles & Space Company; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 331

LONG-DURATION EXPOSURE FACILITY STRUCTURAL INTERFACE; Long, M. J.; NASA Langley Research Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 423

MECHANICAL DRIVE FOR RETRACTABLE TELESCOPIC MASTS; Humphries, M. E.; British Aerospace, England, Bristol Division; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 205

MULTI-CHANNEL CHOPPER SYSTEM FOR A TOTAL OZONE MAPPING SPECTROMETER; Krueger, A. J., NASA Goddard Space Flight Center, and Weilbach, A. O., Helvart Associates; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 63

PAYLOAD RETENTION LATCHES FOR THE SHUTTLE ORBITER; Renken, R. D. and Maxwell, R. P.; Ball Aerospace Systems Division; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 31

SPACE SHUTTLE MAIN ENGINE - HYDRAULIC ACTUATION SYSTEM; Geller, G. and Lamb, C. D.; NASA Marshall Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 291

SPACE SHUTTLE ORBITER RUDDER/SPEEDBRAKE SYSTEM; Woolhouse, D., Rockwell International Corporation; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 19

- SPACE SHUTTLE SLIDEWIRE EMERGENCY EGRESS SYSTEM; Jeffcoat, G. B. and Stephan, E. S.; John F. Kennedy Space Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 47
- SPACE-DEPLOYABLE BOX TRUSS STRUCTURE DESIGN; Coyner, J. V. and Tobey, W. H.; Martin-Marietta Denver Aerospace; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 137
- SPACECRAFT AUTOMATIC UMBILICAL SYSTEM; Goldin, R. W., Jacquemin, G. G., Lockheed Missiles & Space Company, and Johnson, W. H., Marshall Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 391
- SRB DEWATERING SET; Wickham, R. E.; John F. Kennedy Space Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 279
- SYSTEME D'ORIENTATION FINE D'ANTENNE (AN ANTENNA FINE POINTING MECHANISM); Hubert, B. and Brunet, P.; Societe Nationale Industrielle Aerospatial, France; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 235
- SYSTEMS APPROACH TO MECHANISMS FOR A WHITE LIGHT CORONAGRAPH/X-RAY XUV TELESCOPE; Mastronardi, R. and Cabral, R. E.; American Science and Engineering, Inc.; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 77
- TECHNOLOGY DEVELOPMENT METHODOLOGY FOR A CLASS OF LARGE DIAMETER SPACEBORNE DEPLOYABLE ANTENNAS; Wade, W. D. and McKean, V. C.; Lockheed Missiles & Space Company; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 159
- ZERO GRAVITY TESTING OF FLEXIBLE SOLAR ARRAYS; Chung, D. T., Lockheed Missiles & Space Company, and Young, L. E., Marshall Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 115

SIXTEENTH AEROSPACE MECHANISMS SYMPOSIUM; MAY 13-14, 1982; NASA JOHN F. KENNEDY SPACE CENTER, KENNEDY SPACE CENTER, FLORIDA

- BAGGIE: A UNIQUE SOLUTION TO AN ORBITING ICING PROBLEM; Walkover, L. J.; Rockwell International Corporation; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 1
- BALL TRUNNION CAPTURE LATCH; Adams, D. V. and Alchorn, B.; Lockheed Missiles & Space Company; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 99
- CENTERLINE LATCH TOOL FOR CONTINGENCY ORBITER DOOR CLOSURE; Trevino, R. C.; Lyndon B. Johnson Space Center; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 63
- COMPUTER-AIDED DESIGN AND ANALYSIS OF MECHANISMS; Knight, F. L.; The Aerospace Corporation; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 175
- DEPLOYMENT MECHANISM FOR THE DOUBLE ROLL-OUT FLEXIBLE SOLAR ARRAY ON THE SPACE TELESCOPE; Cawsey, T. R.; British Aerospace, PLC, England, Bristol Division; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 223
- DEPLOYMENT/RETRACTION GROUND TESTING OF A LARGE FLEXIBLE SOLAR ARRAY; Chung, D. T.; Lockheed Missiles & Space Company; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 249
- DESIGN AND ANALYSIS CONSIDERATIONS FOR DEPLOYMENT MECHANISMS IN A SPACE ENVIRONMENT; Vorlicek, P. L., Gore, J. V., and Plescia, C. T.; Ford Aerospace and Communications Corporation; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 211
- DESIGN AND DEVELOPMENT OF AN END EFFECTOR FOR THE SHUTTLE REMOTE MANIPULATOR SYSTEM; Daniell, R. G. and Sachdev, S. S.; Spar Aerospace Ltd., Canada; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 45
- DESIGN ASPECTS OF A SOLAR ARRAY DRIVE FOR SPOT, WITH A HIGH PLATFORM STABILITY OBJECTIVE; Cabillie, J., Fournier, J. P., SEP, FRANCE; Anstett, P., Souliac, M., Matra EPT France; and Thomlin, G., CNES, France; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 143
- DESIGN OF A 7kW POWER TRANSFER SOLAR ARRAY DRIVE MECHANISM; Sheppard, J. S.; British Aerospace Dynamics Group, England; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 341

- DESIGN, DEVELOPMENT AND MECHANIZATION OF A PRECISION DEPLOYABLE TRUSS WITH OPTIMIZED STRUCTURAL EFFICIENCY FOR SPACEBORNE APPLICATIONS; Craighead, N. D., Hult, T. D., and Preliasco, R. J.; Lockheed Missiles & Space Company; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 315
- DEVELOPMENT OF A HIGH STABILITY POINTING MECHANISM FOR WIDE APPLICATION; Brunnen, A. J. D., British Aerospace Dynamics Group, England, and Bentall, R. H., European Space Agency, Estec, Netherlands; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 159
- DEVELOPMENT OF A UNIVERSAL DIAGNOSTIC PROBE SYSTEM FOR TOKAMAK FUSION TEST REACTOR; Mastronardi, R., Cabral, R., American Science and Engineering, Inc., and Manos, D., Princeton University Plasma Physics Laboratory; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 265
- DEVELOPMENT OF AN ULTRA-LOW-SHOCK SEPARATION NUT; Woebkenberg, W., Matteo, D. N., General Electric Company, and V. D. Williams, Hi-Shear Corporation; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 87
- DUAL DRIVE ACTUATORS; Packard, D. T.; Jet Propulsion Laboratory, California Institute of Technology; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 123
- ELASTIC SUSPENSION OF A WIND TUNNEL TEST SECTION; Hacker, R., Lockheed Missiles & Space Company, Rock, S., Systems Control, Inc., and DeBra, D. B., Stanford University; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 277
- ESTIMATION OF BEARING CONTACT ANGLE IN-SITU BY X-RAY KINEMATOGRAPHY; Fowler, P. H., TRW Space and Technology Group, and F. Manders, Ball Aerospace Systems Division; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 189
- FLIGHT SUPPORT SYSTEM MECHANISM; Leavy, W. A.; NASA Goddard Space Flight Center; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 23
- MECHANICAL DESIGN OF A VAPOR COMPRESSOR FOR A HEAT PUMP TO BE USED IN SPACE; Berner, F., Oesch, H., Goetz, K., Swiss Federal Aircraft Factory, Switzerland, and Savage, C. J., European Space Agency, ESTEC, The Netherlands; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 329
- MOVABLE STOP MECHANISM FOR THE SIRE TELESCOPE; Tweedt, R. E. and Poulsen, R. N.; Hughes Aircraft Company; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 109

NATIONAL GEOTECHNICAL CENTRIFUGE; Hallam, J. A., Kunz, N. and Vallotton, W. C.; NASA Ames Research Center; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 201

SOLAR DRUM POSITIONER MECHANISMS; Briggs, L. W.; Hughes Aircraft Company; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 235

SPACE SHUTTLE EXTERNAL TANK GASEOUS OXYGEN VENT SYSTEM; Franklin, W. G.; NASA John F. Kennedy Space Center; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 299

SPACECRAFT LAUNCH VEHICLE EVENT SEQUENCING SYSTEM; Noel, V. R.; McDonnell-Douglas Astronautics Company; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 73

SEVENTEENTH AEROSPACE MECHANISMS SYMPOSIUM; MAY 5-6, 1983; JET PROPULSION
LABORATORY, PASADENA, CALIFORNIA

BROADBASED ACTUATOR CONCEPT FOR SPACEFLIGHT APPLICATION; Hammond, J. C.,
Schaeffer Magnetics, Inc., Chatsworth, CA; Seventeenth AMS, NASA CP-2273,
Held at Jet Propulsion Laboratory, CA; Session 2, Chmn. Allen J. Louviere;
5-6 May 1983; p. 55

CANNON LAUNCHED ELECTROMECHANICAL CONTROL ACTUATION SYSTEM DEVELOPMENT;
Johnston, J. G., Martin Marietta Aerospace, Orlando, FL; Seventeenth AMS,
NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 4, Chmn.
Donald N. Matteo; 5-6 May 1983; p. 181

COMPACT MAGNETIC BEARING FOR GIMBALLED MOMENTUM WHEEL; Yabu-uchi, K.,
Inoue, M., and Akishita, S., Mitsubishi Electric Corp., Amagasaki, Japan;
Murakami, C. and Okamoto, O., National Aerospace Laboratory, Tokyo, Japan;
Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA;
Session 8, Chmn. Bowden W. Ward, Jr.; 5-6 May 1983; p. 333

CONSIDERATIONS ON THE LUBRICATION OF SPACECRAFT MECHANISMS; Briscoe, H. M.,
European Space Research and Technology Centre, Noordwijk, The Netherlands,
and Todd, M. J., European Space Tribology Laboratory, Risley, United
Kingdom; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory,
CA; Session 1, Chmn. Dr. Hans Hintermann; 5-6 May 1983; p. 19

CONTROL OF LARGE THERMAL DISTORTIONS IN A CRYOGENIC WIND TUNNEL; Gustafson,
J. C., NASA Langley Research Center, Hampton, VA; Seventeenth AMS, NASA
CP-2273, Held at Jet Propulsion Laboratory, CA; Session 3, Chmn. Dr. A. H.
Hausrath; 5-6 May 1983; p. 121

DEPLOYMENT AND RELEASE MECHANISMS ON THE SWEDISH SATELLITE, VIKING;
Eriksson, S., Saab-Space AB, Linkoping, Sweden; Seventeenth AMS, NASA
CP-2273, Held at Jet Propulsion Laboratory, CA; Session 6, Chmn. Lloyd W.
Briggs; 5-6 May 1983; p. 305

DESIGN AND DEVELOPMENT OF A MOUNTING AND JETTISON ASSEMBLY FOR THE SHUTTLE
ORBITER ADVANCED GIMBAL SYSTEM; Korzeniowski, E. S., Sperry Flight
Systems, Phoenix, AZ; Seventeenth AMS, NASA CP-2273, Held at Jet
Propulsion Laboratory, CA; Session 6, Chmn. Lloyd W. Briggs; 5-6 May 1983;
p. 267

DESIGN OF THE GALILEO REMOTE SCIENCE POINTING ACTUATORS; Osborn, F. W., Jet
Propulsion Laboratory, Pasadena, CA; Seventeenth AMS, NASA CP-2273, Held
at Jet Propulsion Laboratory, CA; Session 8, Chmn. Bowden W. Ward, Jr.;
5-6 May 1983; p. 315

DESIGN OPTIMIZATION OF HIGH-PERFORMANCE ELECTRODYNAMIC ACTUATORS FOR USE IN A
CRYOGENICALLY COOLED TELESCOPE; Aubrun, J. N., Lorell, K. R., and
Silveira, K. P., Lockheed Missiles & Space CO., Palo Alto, CA; Seventeenth
AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 2, Chmn.
Allen J. Louviere; 5-6 May 1983; p. 109

EVALUATION OF SCANNING EARTH SENSOR MECHANISM ON ENGINEERING TEST SATELLITE IV; Ikeuchi, M. and Wakabayashi, Y., National Space Development Agency, Ibaragi, Japan; Ohkami, Y. and Kida, T., National Aerospace Laboratory, Tokyo, Japan; Ishigaki, T. and Matsumoto, M., Matsushita Research Institute, Kawasaki, Japan; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 3, Chmn. Dr. A. H. Hausrath; 5-6 May 1983; p. 143

HINGE LATCH MECHANISM; Walker, J. C., Ball Aerospace Systems, Boulder, CO; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 8, Chmn. Bowden W. Ward, Jr.; 5-6 May 1983; p. 343

LATCH FITTINGS FOR THE SCIENTIFIC INSTRUMENTS ON THE SPACE TELESCOPE; Dozier, J. D., NASA Marshall Space Flight Center, AL and Kaelber, E., Perkin-Elmer, Danbury, CT; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 5, Chmn. Bill M. McAnally; 5-6 May 1983; p. 253

LINEAR BOOM ACTUATOR DESIGNED FOR THE GALILEO SPACECRAFT; Koch, E. F., Jet Propulsion Laboratory, Pasadena, CA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 4, Chmn. Allen J. Louviere; 5-6 May 1983; p. 81

MANNED MANEUVERING UNIT FLIGHT CONTROLLER ARM; Falkner, K. E., Martin-Marietta Aerospace, Denver, CO; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 5, Chmn. Bill M. McAnally; 5-6 May 1983; p. 245

NUTATION DAMPER SYSTEM; Sevilla, D. R., Jet Propulsion Laboratory, Pasadena, CA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 4, Chmn. Donald N. Matteo, 5-6 May 1983; p. 209

PAYLOAD RETENTION FITTINGS FOR SPACE SHUTTLE PAYLOAD GROUND HANDLING MECHANISM; Cassisi, V., NASA KSC, FL; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; 5-6 May 1983; p. 375

POLARIZER MECHANISM FOR THE SPACE TELESCOPE FAINT OBJECT; Thulson, M. D., Martin-Marietta Aerospace, Denver, CO; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 2, Chmn. Allen J. Louviere; 5-6 May 1983; p. 97

PRACTICAL SMALL-SCALE EXPLOSIVE SEAM WELDING; Bement, L. J., NASA Langley Research Center, Hampton, VA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 5, Chmn. Bill M. McAnally; 5-6 May 1983; p. 227

RELEASE-ENGAGE MECHANISM FOR USE ON THE ORBITER, EVOLUTION OF; Calvert, J., NASA Marshall Space Flight Center, AL; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 8, Chmn. Bowden W. Ward, Jr.; 5-6 May 1983; p. 357

ROLLING BEAM UMBILICAL SYSTEM; Tatem, B. C. Jr., Planning Research Corp., NASA Kennedy Space Center, FL; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 6, Chmn. Lloyd W. Briggs; 5-6 May 1983; p. 289

SECURING MECHANISM FOR THE DEPLOYABLE COLUMN OF THE HOOP/COLUMN ANTENNA; Ahl, E. L. Jr., NASA Langley Research Center, Hampton, VA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 3, Chmn. Dr. A. H. Hausrath; 5-6 May 1983; p. 157

SPACE TELESCOPE - SOLAR ARRAY PRIMARY DEPLOYMENT MECHANISM; Chandler, D. P. and Veit, A., Contraves AG, Zurich, Switzerland; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 1, Chmn. Dr. Hans Hintermann; 5-6 May 1983; p. 39

TETHERED SATELLITE CONTROL MECHANISM; Kyrias, G. M., Martin-Marietta Aerospace; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 1, Chmn. Dr. Hans Hintermann; 5-6 May 1983; p. 1

TWO HUNDRED PASSAGE THREE-WAY VALVE - FRACTION COLLECTOR; Keffer, J. L., McDonnell-Douglas Astronautics Co., St. Louis, MO; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 4, Chmn. Donald N. Matteo, 5-6 May 1983; p. 199

EIGHTEENTH AEROSPACE MECHANISMS SYMPOSIUM; MAY 2-4, 1984;
GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND

ACTUATOR DEVELOPMENT FOR THE INSTRUMENT POINTING SYSTEM (IPS); Suttner, K., Dornier System GmbH, Friedrichshafen, West Germany; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 1, Chmn. Otto H. Fedor; 2-4 May 1984; p. 15

ANTENNA TRACKING MECHANISM FOR GEOSTATIONARY SATELLITES; Francis, C. M., Ford Aerospace and Communications Corporation, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 203

DESIGN AND DEVELOPMENT OF A RELEASE FOR SPACE SHUTTLE LIFE-SCIENCE EXPERIMENTS; Jones, H. M. and Daniell, R. G., Spar Aerospace Limited, Weston, Ontario Canada; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 1, Chmn. Otto H. Fedor; 2-4 May 1984; p. 1

DESIGN AND DEVELOPMENT OF A SOLAR TRACKING UNIT; Jones, I. W. and Miller, J. B., NASA Langley Research Center, Hampton, VA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 187

DESIGN AND DEVELOPMENT OF TWO-FAILURE TOLERANT MECHANISMS FOR THE SPACEBORNE IMAGING RADAR (SIR-B) ANTENNA; Presas, S. J., Ball Aerospace, High Technology Products, Boulder, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 131

DESIGN AND OPERATION OF A DEPLOYABLE TRUSS STRUCTURE; Miura, K., The Institute of Space and Astronautical Science, Tokyo, Japan; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 49

DESIGN AND TEST OF A LOW-TEMPERATURE LINEAR DRIVER/RATE CONTROLLER; Lowry, C. H., Rockwell International, Space Transportation and Systems Group, Downey, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 65

DESIGN OF A PRECISION ETALON POSITION CONTROL SYSTEM FOR A CRYOGENICSPECTROMETER; Auburn, J. N., Lorell, K. R., Zacharie, D. F. and Thatcher, J. B., Lockheed Palo Alto Research Laboratories, Palo Alto, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 243

ELECTRON ECHO 6 MECHANICAL DEPLOYMENT SYSTEMS; Meyers, S. C., NASA Goddard Space Flight Center, Greenbelt, MD; Steffen, J. E., Malcolm, P. R. and Winckler, J. R., University of Minnesota, Minneapolis, MN; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984 p. 263

EVOLUTION FROM A HINGE ACTUATOR MECHANISM TO AN ANTENNA DEPLOYMENT MECHANISM FOR USE ON THE EUROPEAN LARGE COMMUNICATIONS SATELLITE (L-SAT/OLYMPUS); De'Ath, M. D., British Aerospace Dynamics Group, Stevenage, Herts, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 79

IMPORTANCE OF THERMAL-VACUUM TESTING IN ACHIEVING HIGH RELIABILITY OF SPACE-CRAFT MECHANISMS; Parker, K., European Space Tribology Laboratory, Risley, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 93

IMPROVING SLIPRING PERFORMANCE; Matteo, D. N., General Electric Co., Space Systems Division, Philadelphia, PA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 111

INHERENT PROBLEMS IN DESIGNING TWO-FAILURE TOLERANT ELECTROMECHANICAL ACTUATORS; Hornyak, S., General Dynamics Convair Division, San Diego, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 155

PASSIVE SUN SEEKER/TRACKER AND A THERMALLY ACTIVATED POWER MODULE; Siebert, C. J. and Morris, F. A., Martin Marietta Aerospace, Denver, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984, p. 171

PASSIVELY CONTROLLED APPENDAGE DEPLOYMENT SYSTEM FOR THE SAN MARCO D/L SPACECRAFT; Lang, W. E., Frisch, H. P., and Schwartz, D. A., NASA Goddard Space Flight Center, Greenbelt, MD; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 29

SEPARATION AND STAGING MECHANISMS FOR THE INDIAN SLV-3 LAUNCH VEHICLE; Majeed, M. K. A., Natarajan, K., and Krishnankutty, V. K., Indian Space Research Organization, Vikram Sarabhai Space Centre Trivandrum, India; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 277

SMART MOTOR TECHNOLOGY; Packard, D., Jet Propulsion Laboratory, Pasadena, CA, and Schmitt, D., Lockheed Missiles and Space Company; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 6, Chmn. Dr. Richard H. Bentall; 2-4 May 1984; p. 301

SPACELAB 4 - PRIMATE EXPERIMENT SUPPORT HARDWARE; Fusco, P. R. and Peyran, R. J., NASA AMES Research Center, Moffett Field, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 215

NINETEENTH AEROSPACE MECHANISMS SYMPOSIUM; MAY 1-3, 1985; NASA AMES RESEARCH CENTER, MOFFETT FIELD, CALIFORNIA

ADVANCES IN SPUTTERED AND ION PLATED SOLID FILM LUBRICATION; Spalvins, T., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985, p. 209

APPENDAGE DEPLOYMENT MECHANISM FOR THE HUBBLE SPACE TELESCOPE PROGRAM; Greenfield, H. T., Lockheed Missiles & Space Co., Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985, p. 329

APPLICATION OF TRACTION DRIVES AS SERVO MECHANISMS; Lowenthal, S. H., Rohn, D. A. and Steinetz, B. M., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 119

CIRCULATION CONTROL LIFT GENERATION EXPERIMENT: HARDWARE DEVELOPMENT; Panontin, T. L., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985, p. 363

DESIGN AND DEVELOPMENT OF A CONSTANT SPEED SOLAR ARRAY DRIVE; Jones, H. M. and Roger, N., Spar Aerospace Ltd., Toronto, Ontario, Canada; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 103

DESIGN AND DEVELOPMENT OF A LINEAR THERMAL ACTUATOR; Bush, G. and Osborne, D., Spar Aerospace Ltd., Ste. Anne de Bellevue, Quebec, Canada; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 87

DESIGN AND DEVELOPMENT OF A SPACECRAFT APPENDAGE TIE DOWN MECHANISM; Nygren, W. D. and Head, K., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985, p. 167

DESIGN OF A DUAL FAULT TOLERANT SPACE SHUTTLE PAYLOAD DEPLOYMENT ACTUATOR; Teske, D. R., Sundstrand Energy Systems, Rockford, IL; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985, p. 305

DEVELOPMENT OF AN ENERGY ABSORBING PASSENGER SEAT FOR A TRANSPORT AIRCRAFT; Eichelberger, C. P. and Alfano-Bou, E., NASA Langley Research Center, Hampton, VA and Fasanella, E. L., Kenton Intl., Hampton, VA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 39

- DEVELOPMENT OF STAGING MECHANISMS FOR THE JAPANESE SATELLITE LAUNCHER Mu-3SII; Onoda, J., The Institute of Space and Astronautical Science, Tokyo, Japan; Nineteenth AMS, NASA CP-2371, Held at NASA AMES Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 259
- DRAG-COMPENSATED, PRECISION-POWERED HINGE SYSTEM; Jacquemin, G. G. and Rusk, S. J., Lockheed Missiles & Space Co; Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985; p. 75
- DUAL ARM MASTER CONTROLLER DEVELOPMENT; Kuban, D. P., Oak Ridge National Laboratory, Oak Ridge, TN and Perkins, G. S., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 235
- DUAL FAULT TOLERANT AEROSPACE ACTUATOR; Siebert, C. J., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 293
- FEATURES OF THE SOLAR ARRAY DRIVE MECHANISM FOR THE SPACE TELESCOPE; Hostenkamp, R. G., Dornier System GmbH, Friedrichshafen, West Germany; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 315
- GALILEO SPACECRAFT MAGNETOMETER BOOM; Packard, D. T. and Benton, M. D., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 1
- HOOP/COLUMN ANTENNA DEPLOYMENT MECHANISM OVERVIEW; Allen, B. B., Harris Corp., Melbourne, FL and Butler, D. H., NASA Langley Research Center, Hampton, VA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 23
- MAN-VEHICLE SYSTEMS RESEARCH FACILITY, ADVANCED AIRCRAFT FLIGHT SIMULATOR THROTTLE MECHANISM; Kurasaki, S. S., and Vallotton, W. C., NASA Ames Research center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 251
- MODULAR DOCKING MECHANISM FOR IN-ORBIT ASSEMBLY AND SPACECRAFT SERVICING; Gampe, F. and Priesett, K., Dornier System GmbH, West Germany and Bentall, R. H., European Space Research and Development Centre, Noordwijk, The Netherlands; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 59

- PROPERTIES OF THIN-SECTION FOUR-POINT-CONTACT BALL BEARINGS IN SPACE;
Rowntree, R. A., European Space Tribology Laboratory, Risley, England;
Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett
Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 141
- ROTATING ELECTRICAL TRANSFER DEVICE; Porter, R. S., Sperry Flight Systems,
Phoenix, AZ; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research
Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985;
p. 277
- SIX MECHANISMS USED ON THE SSM/I RADIOMETER; Ludwig, H. R., Hughes Aircraft
Co., El Segundo, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames
Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith;
1-3 May 1985; p. 347
- TELEPRESENCE WORK SYSTEM CONCEPTS; Jenkins, L. M., NASA Johnson Space Center,
Houston, TX; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research
Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson;
1-3 May 1985; p. 225
- TWO-PLANE BALANCE AND SLIP-RING DESIGN; Luna, P. M., NASA Ames Research
Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames
Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor;
1-3 May 1985; p. 379
- USE OF PERFLUORETHER LUBRICANTS IN UNPROTECTED SPACE ENVIRONMENTS;
Baxter, B. H. and Hall, B. P., British Aerospace, Precision Products
Group, Stevenage, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames
Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages;
1-3 May 1985; p. 179

2 LISTING BY TITLE

INDEX OF SYMPOSIUM PAPERS - AEROSPACE MECHANISMS SYMPOSIUM (AMS)
(ALPHABETICAL BY TITLE)

- ACCELERATED VACUUM TESTING OF LONG LIFE BALL BEARINGS AND SLIPRINGS;
Meeks, C. R., Christy, R. I. and Cunningham, A. C.; Hughes Aircraft
Company; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center,
MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p.
127
- ACTIVE NUTATION DAMPER FOR SPACECRAFT; Abercrombie, A. and Flatley, Dr. W.;
NASA Goddard Space Flight Center; Eleventh AMS, NASA CP 2038, Held at NASA
Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29
April 1977; p. 139
- ACTUATED LATCH PIN AND ITS DEVELOPMENT; Lawlor, P. J.; Institute for
Industrial Research and Standards, Ireland; Fourteenth AMS, NASA CP-2127,
Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980;
p. 69
- ACTUATOR DEVELOPMENT FOR THE INSTRUMENT POINTING SYSTEM (IPS); Suttner K.,
Dornier System GmbH, Friedrichshafen, West Germany; Eighteenth AMS, NASA
CP-2311, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn.
Otto H. Fedor; 2-4 May 1984; p. 15
- ADJUSTABLE HIGH PRECISION LATCHING HINGE, THE DESIGN OF; Ribble, J. W. and
Wade, W. D.; Lockheed Missiles & Space Company; Thirteenth AMS, NASA
CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn.
B. W. Ward, 26-27 April 1979; p. 127
- ADVANCED VEHICLE SEPARATION APPARATUS; Ospring, M. J. and Mancini, R. E.;
NASA Ames Research Center; Twelfth AMS, NASA CP-2080, Held at NASA Ames
Research Center, CA; Session II, Chmn. R. K. Pefley, 27-28 April 1978;
p. 131
- ADVANCES IN SPUTTERED AND ION PLATED SOLID FILM LUBRICATION; Spalvins, T.,
NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371,
Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn.
Dr. Horst Klages; 1-3 May 1985; p. 209
- AEROSPACE LUBRICATION TECHNOLOGY TRANSFER TO INDUSTRIAL APPLICATIONS;
Loran, T. J. and Perrin, B.; Ball Brothers Research Corporation; Ninth
AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I,
Chmn. E. E. Sechler, 17-18 October 1974; p. 45
- AEROSPACE VEHICLE SEPARATION MECHANISMS SELECTION, DESIGN, AND USE
CONSIDERATIONS; Gluckman, I. B.; Lockheed Missiles & Space Company; Fifth
AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I,
Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 17
- AIRPLANE WING LEADING EDGE VARIABLE CAMBER FLAP; Cole, J. B.; Boeing Commercial
Airplane Company; Fourteenth AMS, NASA CP-2127, Held at NASA Langley
Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 225

- ANALYSIS OF A SATELLITE ANGLE-OF-ATTACK SENSOR; Frye, W. E.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 277
- ANALYSIS OF AEROSPACE IMPACT PROBLEMS; Hayes, D., Cawood, C. and Kertesz, T.; University of Santa Clara; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 123
- ANTENNA DRIVE SYSTEM FOR THE NIMBUS SATELLITE; Wedlake, G. J. and Loudon, J. D.; Ball Brothers Research Corporation; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 117
- ANTENNA FOR THE ATS F AND G SYNCHRONOUS SATELLITE, 30-FT-DIAM ; Carman, R. R. and Rottmayer, E.; Goodyear Aerospace Corporation; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 143
- ANTENNA POINTING MECHANISM FOR LARGE REFLECTOR ANTENNAS; Heimerdinger, H.; Dornier System GmbH, Germany; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 253
- ANTENNA TRACKING MECHANISM FOR GEOSTATIONARY SATELLITES; Francis, C. M., Ford Aerospace and Communications Corporation, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 203
- ANTENNA, DEPLOYABLE 0.015-INCH DIAMETER WIRE; DeBiasi, L.; Fairchild Space & Electronics Company; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 35
- APOLLO 11 LASER RANGING RETRO-REFLECTOR ARRAY; McCullough, J. E.; Arthur D. Little, Inc.; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 171
- APOLLO 14 DOCKING ANOMALY; Langley, R. D.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 191
- APOLLO 15 DEPLOYABLE BOOM ANOMALY; White, R. D.; NASA Manned SpaceCRAFT Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 15
- APOLLO 15 MAIN-PARACHUTE FAILURE; Arabian, D. D. and Mechelay, J. E.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 137

APOLLO COMMAND MODULE SIDE ACCESS HATCH SYSTEM; Walkover, L. J., Hart, R. J., and Zosky, E. W.; North American Rockwell Corporation; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 157

APOLLO COUCH ENERGY ABSORBERS; Wesselski, C. J. and Drexel, R. E.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 157

APOLLO DOCKING SYSTEM; Bloom, K. A. and Campbell, G. E.; North American Rockwell Corporation; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 3

APOLLO LUNAR MODULE LANDING GEAR; Rogers, W. F.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmucker and F. T. Martin, 7-8 September 1972; p. 123

APOLLO-SOYUZ TEST PROJECT DOCKING SYSTEM; Swan, W. L. Jr.; Space Division, Rockwell International; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 26

APPENDAGE DEPLOYMENT MECHANISM FOR THE HUBBLE SPACE TELESCOPE PROGRAM; Greenfield, H. T., Lockheed Missiles & Space Co., Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985; p. 329

APPLICATION OF INTERACTIVE COMPUTER GRAPHICS TECHNOLOGY TO THE DESIGN OF DISPERSAL MECHANISMS; Richter, B. J. and Welch, B. H.; Lockheed Missiles & Space Company; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. C. R. Meeks, 28-29 April 1977; p. 57

APPLICATION OF TRACTION DRIVES AS SERVO MECHANISMS; Loewenthal, S. H., Rohn, D. A., and Steinetz, B. M., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 119

ASSURANCE OF LUBRICANT SUPPLY IN WET-LUBRICATED SPACE BEARINGS; Glassow, F. A.; Hughes Aircraft Company; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 90

AUTOMATED BEAM BUILDER; Muench, W. K.; Grumman Aerospace Corporation; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 247

AUTOMATED PARKING GARAGE SYSTEM MODEL; Collins, C. R. Jr.; Jet Propulsion Laboratory, California Institute of Technology; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 387

AUTOMATIC IN-ORBIT ASSEMBLY OF LARGE SPACE STRUCTURES; Jacquemin, G. G.; Lockheed Missiles & Space Company; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session IV, Chmn. P. A. Lord, 26-27 April 1979; p. 283

BAGGIE: A UNIQUE SOLUTION TO AN ORBITING ICING PROBLEM; Walkover, L. J.; Rockwell International Corporation; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 1

BALL BEARING VERSUS MAGNETIC BEARING REACTION AND MOMENTUM WHEELS AS MOMENTUM ACTUATORS; Auer, W.; Teldix GmbH, Germany; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 79

BALL TRUNNION CAPTURE LATCH; Adams, D. V. and Alchorn, B.; Lockheed Missiles & Space Company; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 99

BALL-LOCK-BOLT SEPARATION SYSTEM; Moulton, J. I.; Quantic Industries, Pelmec Division; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 197

BAPTA EMPLOYING ROTARY TRANSFORMERS, STEPPER MOTORS AND CERAMIC BALL BEARINGS; Auer, W.; Teldix, Germany; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 189

BEHAVIOR OF LUBRICATION SYSTEM COMPONENTS IN A VACUUM ENVIRONMENT; Buckley, D. H.; NASA Lewis Research Center; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 111

BI-STEM - A NEW TECHNIQUE IN UNFURLABLE STRUCTURES; MacNaughton, J. D., Weyman, H. N., and Groskopf, E.; Special Projects and Applied Research Division, The de Havilland Aircraft of Canada, Limited; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 139

BROADBASED ACTUATOR CONCEPT FOR SPACEFLIGHT APPLICATION; Hammond, J. C., Schaeffer Magnetics, Inc., Chatsworth, CA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session II, Chmn. Allen J. Louviere; 5-6 May 1983; p. 55

BRUSHLESS DESPIN DRIVE AND CONTROL FOR A COMMUNICATION SATELLITE ANTENNA; Fleming, M. F., Philco-Ford Corporation, and Phinney, D. D., Ball Brothers Research Corporation; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 3

CAGING MECHANISM FOR A DRAG-FREE SATELLITE POSITION SENSOR; Hacker, R., Mathiesen, J. and DeBra, D. B.; Stanford University; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 125

CANNON LAUNCHED ELECTROMECHANICAL CONTROL ACTUATION SYSTEM DEVELOPMENT; Johnston, J. G., Martin Marietta Aerospace, Orlando, FL; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session IV, Chmn. Donald N. Matteo; 5-6 May 1983; p. 181

CARTRIDGE FIRING DEVICE DESIGNED FOR ATTACHMENT, RELEASE, AND EJECTION OF A SATELLITE; Pierron, L.; Avions Marcel Dessault, France; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. J. H. Parks, 28-29 April 1977; p. 67

CENTERLINE LATCH TOOL FOR CONTINGENCY ORBITER DOOR CLOSURE; Trevino, R. C.; Lyndon B. Johnson Space Center; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 63

CENTRIFUGAL REGULATOR FOR CONTROL OF DEPLOYMENT RATES OF DEPLOYABLE ELEMENTS; Vermalle, J. C.; Aerospatiale; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 93

CHECKLIST FOR BOOM SELECTION; Talcott, J. M.; Fairchild Hiller Corporation; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Chmn. B. E. Tingling, 22-23 May 1969; p. 51

CIRCULATION CONTROL LIFT GENERATION EXPERIMENT: HARDWARE DEVELOPMENT; Panontin, T. L., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985, p. 363

CLAMP MECHANISM FOR DEPLOYABLE THREE-TON PAYLOADS; Birner, R. and Ral H.; Messerschmitt-Bolkow-Blohm GmbH, Germany; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 375

COALIGNMENT OF SPACECRAFT EXPERIMENTS; Federline, R. E.; NASA Goddard Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 91

COLLET RELEASE MECHANISM; Ramos, D. O.; General Electric Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 85

COMPACT MAGNETIC BEARING FOR GIMBALLED MOMENTUM WHEEL; Yabu-uchi, K., Inoue, M., and Akishita, S., Mitsubishi Electric Corp., Amagasaki, Japan; Murakami, C. and Okamoto, O., National Aerospace Laboratory, Tokyo, Japan; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VIII, Chmn. Bowden W. Ward, Jr.; 5-6 May 1983; p. 333

- COMPARATIVE EVALUATION OF OPERABILITY OF LARGE SPACE STRUCTURES; Stokes, J. W.; NASA Marshall Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 357
- COMPRESSION SPRINGS AT ELEVATED TEMPERATURES; Siegel, M. J.; University of Southern California; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 223
- COMPRESSION-SPRING SEPARATION MECHANISMS; Harrington, T. G.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 137
- COMPUTER-AIDED DESIGN AND ANALYSIS OF MECHANISMS; Knight, F. L.; The Aerospace Corporation; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 175
- CONCEPTION, BIRTH, AND GROWTH OF A MISSILE UMBILICAL SYSTEM; Nordman, G. W., Martin-Marietta Corporation; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. G. A. Smith, 28-29 April 1977; p. 203
- CONICAL PIVOT BEARINGS FOR SPACE APPLICATIONS; Herzl, G. G.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 203
- CONSIDERATIONS ON THE LUBRICATION OF SPACECRAFT MECHANISMS; Briscoe, H. M., European Space Research and Technology Centre, Noordwijk, The Netherlands, and Todd, M. J., European Space Tribology Laboratory, Risley, United Kingdom; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session I, Chmn. Dr. Hans Hintermann; 5-6 May 1983; p. 19
- CONTROL OF LARGE THERMAL DISTORTIONS IN A CRYOGENIC WIND TUNNEL; Gustafson, J. C., NASA Langley Research Center, Hampton, VA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session III, Chmn. Dr. A. H. Hausrath; 5-6 May 1983; p. 121
- CONTROL VALVE: HOT GAS FAST RESPONSE; Hollis, J. T., Killebrew, A. B., and Smith, J. M.; McDonnell-Douglas Astronautics; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 237
- CONTROLLED-LEAKAGE SEALING OF BEARINGS FOR FLUID LUBRICATION IN A SPACE VACUUM ENVIRONMENT; Silversher, H. I.; Lockheed Missiles & Space Company; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 93
- CRAWLER TRANSPORTER STEERING AND JEL SYSTEM; Davis, V. L.; NASA John F. Kennedy Space Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 359

CURRENT EUROPEAN DEVELOPMENTS IN SOLAR PADDLE DRIVES; Bentall, R. H.; European Space Research and Technology Centre; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 49

DAMPER DESIGN FROM A STRUCTURAL ENGINEER'S POINT OF VIEW; Chen, J. C.; Jet Propulsion Laboratory, California Institute of Technology; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 59

DAMPER FOR GROUND WIND-INDUCED LAUNCH VEHICLE OSCILLATIONS; Bodle, J. G. and Hackley, D. S.; General Dynamics Corporation, Convair Aerospace Division; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan, 17-18 October 1974; p. 313

DEPLOYABLE ANTENNA REFLECTOR; Palmer, W. B.; TRW Defense and Space Systems Group; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. F. T. Martin, 27-28 April 1978; p. 223

DEPLOYABLE SOLAR ARRAY; Berry, T.; Fairchild Hiller Corporation; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 51

DEPLOYMENT AND RELEASE MECHANISMS ON THE SWEDISH SATELLITE, VIKING; Eriksson, S., Saab-Space AB, Linkoping, Sweden; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VI, Chmn. Lloyd W. Briggs; 5-6 May 1983; p. 305

DEPLOYMENT FIXTURE FOR THE SIMULATED ZERO-GRAVITY TESTING OF A LARGE-AREA SOLAR ARRAY; Lackey, J. A.; The Boeing Company; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 83

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DESIGN AND ANALYSIS CONSIDERATIONS FOR DEPLOYMENT MECHANISMS IN A SPACE ENVIRONMENT; Vorlicek, P. L., Gore, J. V., and Plescia, C. T.; Ford Aerospace and Communications Corporation; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 211

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DESIGN AND DEVELOPMENT OF A MOMENTUM WHEEL WITH MAGNETIC BEARINGS; Veillette, L. J.; NASA Goddard Space Flight Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 131

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DESIGN AND DEVELOPMENT OF A MOUNTING AND JETTISON ASSEMBLY FOR THE SHUTTLE ORBITER ADVANCED GIMBAL SYSTEM; Korzeniowski, E. S., Sperry Flight Systems, Phoenix, AZ; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VI, Chmn. Lloyd W. Briggs; 5-6 May 1983; p. 267

DESIGN AND DEVELOPMENT OF A RELEASE FOR SPACE SHUTTLE LIFE-SCIENCE EXPERIMENTS; Jones, H. M. and Daniell, R. G., Spar Aerospace Limited, Weston, Ontario Canada; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. Otto H. Fedor; 2-4 May 1984; p. 1

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- DESIGN, DEVELOPMENT AND MECHANIZATION OF A PRECISION DEPLOYABLE TRUSS WITH OPTIMIZED STRUCTURAL EFFICIENCY FOR SPACEBORNE APPLICATIONS; Craighead, N. D., Hult, T. D., and Preliasco, R. J.; Lockheed Missiles & Space Company; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 315
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- DEVELOPMENT OF A UNIVERSAL DIAGNOSTIC PROBE SYSTEM FOR TOKAMAK FUSION TEST REACTOR; Mastronardi, R., Cabral, R., American Science and Engineering, Inc., and Manos, D., Princeton University Plasma Physics Laboratory; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 265
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Chmn. Lester D. Nichols; 1-3 May 1985; p. 75
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Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes,
22-23 May 1969; p. 149
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Division, General Electric Company; Fourteenth AMS, NASA CP-2127, Held at
NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 279
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Ulanovsky, J., Parker Hannifin Corporation; Fifteenth AMS, NASA CP-2181,
Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale,
14-15 May 1981; p. 1
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- ELASTIC SUSPENSION OF A WIND TUNNEL TEST SECTION; Hacker, R., Lockheed Missiles & Space Company, Rock, S., Systems Control, Inc., and DeBra, D. B., Stanford University; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 277
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- ELEVEN-METER DEPLOYABLE TRUSS FOR THE SEASAT RADAR ANTENNA; Campbell, B. E., Astro Research Corporation and Hawkins, W., Ball Brothers Research Corporation; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 77
- EMERGENCY IN-FLIGHT EGRESS OPENING FOR GENERAL AVIATION AIRCRAFT; Bement, L. J.; NASA Langley Research Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 173
- ESTIMATION OF BEARING CONTACT ANGLE IN-SITU BY X-RAY KINEMATOGRAPHY; Fowler, P. H., TRW Space and Technology Group, and F. Manders, Ball Aerospace Systems Division; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 189
- EVALUATION OF DRY LUBRICANTS AND BEARINGS FOR SPACECRAFT APPLICATIONS; Kirkpatrick, D. L., and Young, W. C.; General Electric Company; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 77
- EVALUATION OF MECHANISMS RETURNED FROM SURVEYOR 3; Jones, J. R., Quinn, W. J., and Bingemann, K. G. Jr.; Hughes Aircraft Company; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 1
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- EVOLUTION FROM A HINGE ACTUATOR MECHANISM TO AN ANTENNA DEPLOYMENT MECHANISM FOR USE ON THE EUROPEAN LARGE COMMUNICATIONS SATELLITE (L-SAT/OLYMPUS); De'Ath, M. D., British Aerospace Dynamics Group, Stevenage, Herts, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 79
- EVOLUTION OF A SPACECRAFT ANTENNA SYSTEM; Kampinsky, A.; NASA Goddard Space Flight Center; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 13
- EVOLUTION OF THE VIKING LANDING GEAR; Pohlen, J. C., Maytum, B. D., Martin-Marietta Corporation, and Ramsey, I. W., and Blanchard, U. J., NASA Langley Research Center; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 218
- EXPLOSIVELY ACTUATED (PYROMECHANICAL) DEVICES FOR SPACECRAFT APPLICATIONS; Benedict, A. G.; Jet Propulsion Laboratory, California Institute of Technology; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 285

EXTENDIBLE BOOM DEVICE; Gamble, W. C.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p.27

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F100 EXHAUST NOZZLE AREA CONTROL MECHANISM; Kozlin, J. R.; Government Products Division, Pratt and Whitney Aircraft Group; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 211

FEATURES OF THE SOLAR ARRAY DRIVE MECHANISM FOR THE SPACE TELESCOPE; Hostenkamp, R. G., Dornier System GmbH, Friedrichshafen, West Germany; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 315

FINAL STATEMENT; Sechler, Dr. E. E.; CALTECH; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session IV, Chmn. M. Briscoe, 27-28 April 1978; p. 245

FLEXIBLE SOLAR-ARRAY MECHANISM; Olson, M. C.; Hughes Aircraft Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 233

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FORWARD BEARING REACTOR MECHANISM FOR TITAN IIIE/CENTAUR D-1T SPACE LAUNCH VEHICLE; Jones, R. A.; General Dynamics Corporation, Convair Aerospace Division; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. K. A. Faymon, 17-18 October 1974; p. 1

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FUEL/HYDRAULIC TRANSFER VALVE IMPROVES RELIABILITY OF ATLAS SPACE LAUNCH VEHICLE; Ogman, M.; General Dynamics Corporation, Convair Division; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 155

FULLY REDUNDANT POWER HINGE FOR LANDSAT-D APPENDAGES; Mamrol, F. E. and Matteo D. N.; Space Division, General Electric Company; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 341

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GEOS 20M CABLE BOOM MECHANISM; Schmidt, G. K. and Suttner, K.; Dornier Systems GmbH, Germany; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 153

GEOS AXIAL BOOMS; Schmidt, G. K.; Dornier Systems GmbH, Germany; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. F. T. Martin, 27-28 April 1978; p. 211

GIMBAL BEARING DESIGN CONSIDERATIONS AND FRICTION CONTROL; Kramer, N. R.; Hughes Aircraft Company; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. D. G. Wong, 26-27 April 1979; p. 71

GODDARD HELICAL TAPE RECORDER; Martin, F. T. and McCarthy, D. K.; NASA Goddard Space Flight Center; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 89

GRAVITY EXERCISE SYSTEM; Brandt, W. E. and Clark, A. L.; Gyrotrim Corporation; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 311

HARD-WIRE ROTATING COUPLING; Wrench, E. H. General Dynamics Corporation, and Veillette, L. NASA Goddard Space Flight Center; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 33

HATCH LATCH MECHANISM FOR SPACELAB SCIENTIFIC AIRLOCK; ter Haar, Ir. G. R.; Fokker-VFW Space Division, Netherlands; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session II, Chmn. R. K. Pefley, 27-28 April 1978; p. 89

HEAT PIPES FOR SPACECRAFT TEMPERATURE CONTROL - THEIR USEFULNESS AND LIMITATIONS; Ollendorf, S. and Stipandic, E.; NASA Goddard Space Flight Center; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 33

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HELICOPTER VISUAL AID SYSTEM; Baisley, R. L.; Jet Propulsion Laboratory, California Institute of Technology; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 293

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HIGH PERFORMING ACTUATION SYSTEM FOR USE WITH A LOUVER ARRAY FOR SATELLITE THERMAL CONTROL; Reusser, P. U. and Coebergh, J. A. F.; Messrs. Peter U. Reusser, LTD; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 85

HIGH RESOLUTION, ADJUSTABLE, LOCKABLE LASER MIRROR MOUNT; Chadwick, C. H.; GTE Sylvania, INC.; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 116

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IMPORTANCE OF THERMAL-VACUUM TESTING IN ACHIEVING HIGH RELIABILITY OF SPACECRAFT MECHANISMS; Parker, K., European Space Tribology Laboratory, Risley, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 93

IMPROVING SLIPRING PERFORMANCE; Matteo, D. N., General Electric Co., Space Systems Division, Philadelphia, PA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 111

IN-FLIGHT FRICTION AND WEAR MECHANISM; Devine, E. J. and Evans, H. E.; NASA Goddard Space Flight Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. E. E. Sechler, 17-18 October 1974; p. 69

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INTEGRATED ROCKET SPIN-UP LAUNCH MECHANISM; Hillan, J.; Lockheed Missiles & Space Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 101

INTELSAT IV ANTENNA POSITIONER; Glassow, F. A.; Hughes Aircraft Company; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 109

INTRODUCTION TO PASSIVE NUTATION DAMPERS; Herzl, G. G.; Lockheed Missiles & Space Company; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 73

INTRODUCTION TO ROLAMITE; Ford, J. P.; Sandia Corporation; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 153

IUS THRUST VECTOR CONTROL (TVC) SERVO SYSTEM; Conner, G. E.; United Technologies, Chemical Systems Division; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session IV, Chmn. P. A. Lord, 26-27 April 1979; p. 271

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LARGE SPACE DEPLOYABLE MODULAR ANTENNA REFLECTORS, THE DESIGN OF; Ribble, J. W. and Woods, A. A. Jr.; Lockheed Missiles & Space Company; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 147

LASER INITIATED EXPLOSIVE DEVICE SYSTEM; Yang, L. C., Menichelli, V. J. and Earnest, J. E.; Jet Propulsion Laboratory, California Institute of Technology; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. D. F. Welch, 18-19 October 1973; p. 25

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LATCH MECHANISM FOR THE SPACE TELESCOPE; Schmidt, H. F.; Lockheed Missiles & Space Company; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 331

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LINEAR BOOM ACTUATOR DESIGNED FOR THE GALILEO SPACECRAFT; Koch, E. F., Jet Propulsion Laboratory, Pasadena, CA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session II, Chmn. Allen J. Louviere; 5-6 May 1983; p. 81

LIQUID PUMP FOR ASTRONAUT COOLING; Carson, M. A.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 181

LOAD PROPORTIONAL SAFETY BRAKE; Cacciola, M. J.; Boeing Commercial Airplane Company; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. C. Darwin, 26-27 April 1979; p. 95

LOADCELL SUPPORTS FOR A DYNAMIC FORCE PLACE; Keller, C. W., Musil, L. M., Lockheed Missiles & Space Company, and Hagy, J. L., Shriners Hospital; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. A. Giovannetti, 17-18 October 1974; p. 265

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LOW COST HIGH TEMPERATURE SUN TRACKING SOLAR ENERGY COLLECTOR; Perkins, G. S.; Jet Propulsion Laboratory, California Institute of Technology; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 163

LOW NUTATION-RATE DAMPERS; Tossman, B. E.; Applied Physics Laboratory, The John Hopkins University; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 97

LOW-TEMPERATURE EFFECTS ON MATERIALS FOR AEROSPACE MECHANISMS; Henry, W. E.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 167

LUBRICATION AS PART OF TOTAL DESIGN; Clauss, F. J.; Lockheed Missiles & Space Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 121

LUBRICATION OF DC MOTORS, SLIP RINGS, BEARINGS, AND GEARS FOR LONG-LIFE SPACE APPLICATIONS; Perrin, B. J. and Mayer, R. W.; Ball Brothers Research Corporation; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 65

LUNAR CART; Miller, G. C.; NASA Manned Spacecraft Center; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 169

LUNAR MODULE ALIGHTMENT SYSTEM; Hilderman, R. A., Mueller, W. H. and Mantus, M.; Grumman Aircraft Engineering Corporation; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 67

LUNAR ORBITER PHOTO-SUBSYSTEM MECHANISMS; Bradley, G.; The Boeing Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 33

LUNAR ROCK SPLITTER/CAN SEALER; Johnson, K. G.; Jet Propulsion Laboratory, California Institute of Technology; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 73

LUNAR ROVING VEHICLE DEPLOYMENT MECHANISM; Hunter, A. B. and Spacey, B. W.; The Boeing Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 101

MAGNETIC BEARING MOMENTUM WHEELS WITH MAGNETIC GIMBALLING CAPABILITY FOR 3-AXIS ACTIVE ATTITUDE CONTROL AND ENERGY STORAGE; Sindlinger, R. S.; Teldix GmbH, Germany; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. C. R. Meeks, 28-29 April 1977; p. 45

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MANIPULATOR ARM FOR ZERO-G SIMULATIONS; Brodie, S. B., Grant, C., and Lazar, J. J.; Martin-Marietta Corporation, Denver Division; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. K. A. Faymon, 17-18 October 1974; p. 19

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MANNED MANEUVERING UNIT FLIGHT CONTROLLER ARM; Falkner, K. E., Martin Marietta Aerospace, Denver, CO; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session V, Chmn. Bill M. McAnally; 5-6 May 1983; p. 245

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- MARINER IV SCIENCE PLATFORM STRUCTURE AND ACTUATOR DESIGN, DEVELOPMENT, AND PERFORMANCE; Coyle, G. and Floyd, E.; Jet Propulsion Laboratory, California Institute Of Technology; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 145
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- MARINER-IV STRUCTURAL DAMPERS; Lyman, P. T.; JET PROPULSION LABORATORY, California Institute Of Technology; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p.37
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- MECHANICAL ADAPTER FOR INSTALLING MISSION EQUIPMENT ON LARGE SPACE STRUCTURES; LeFever, A. and Totah, R. S.; Rockwell International Corporation, Space Operations and Satellite Systems Division; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 237
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- MECHANICAL DESIGN OF A VAPOR COMPRESSOR FOR A HEAT PUMP TO BE USED IN SPACE; Berner, F., Oesch, H., Goetz, K., Swiss Federal Aircraft Factory, Switzerland, and Savage, C. J., European Space Agency, ESTEC, The Netherlands; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 329

MECHANICAL DESIGN OF AN IMAGING PHOTOPOLARIMETER FOR THE JUPITER MISSIONS (PIONEER 10 AND 11); Kodak, J. C.; Santa Barbara Research Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 199

MECHANICAL DESIGN OF NASA AMES RESEARCH CENTER VERTICAL MOTION SIMULATOR; Engelbert, D. F., Bakke, A. P., Chargin, M. K. and Vallotton, W. C.; NASA Ames Research Center; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 155

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- MECHANISMS OF THE SAMS EXPERIMENT FLOWN ON NIMBUS 7 WITH PARTICULAR
REFERENCE TO THE 2 AXIS SCANNING MIRROR; Hadley, H.; Rutherford and
Appleton Laboratories, Science Research Council U.K.; Fourteenth AMS, NASA
CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2
May 1980; p. 323
- MECHANISMS OF UK RADIOMETERS FLOWN ON NIMBUS 5 AND 6 WITH PARTICULAR REFERENCE
TO BEARINGS, PIVOTS AND LUBRICATION; Hadley, H.; Rutherford and Appleton
Laboratories, Science Research Council U.K.; Fourteenth AMS, NASA CP-2127,
Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980;
p. 101
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Haynie, H. T.; Boeing Aerospace Company; Fourteenth AMS, NASA CP-2127,
Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980;
p. 1
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and Studer, P. A.; NASA Goddard Space Flight Center; Fifth AMS, NASA
SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn.
F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 159
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Fairchild Space and Electronics Company; Ninth AMS, NASA TM X-3274, Held
at John F. Kennedy Space Center, FL; Session I, Chmn. E. E. Sechler, 17-18
October 1974; p. 81
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Berkeley; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight
Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June
1970; p. 149
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NASA Langley Research Center; Eighth AMS, NASA TM X-2934, Held at NASA
Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October
1973; p. 229
- MINIMUM-WEIGHT SPRINGS; Fuchs, H. O.; Stanford University; Third AMS,
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G. G. Herzl, 23-24 May 1968; p. 27
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Center; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight
Center, MD; Session II, Chmn. J. H. Parks, 28-29 April 1977; p. 77
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Lockheed Missiles & Space Company; Tenth AMS, NASA TM 33-777, Held at the
Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976;
p. 11

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- MODERN MECHANISMS MAKE MANLESS MARTIAN MISSILE MOBILE - SPIN-OFF SPELLS STAIRCLIMBING SELF-SUFFICIENCY FOR EARTHBOUND HANDICAPPED; Sandor, G. N., Hassel, D. R. and Marino, P. F.; Rensselaer Polytechnic Institute; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. A. Giovannetti, 17-18 October 1974; p. 247
- MODULAR DOCKING MECHANISM FOR IN-ORBIT ASSEMBLY AND SPACECRAFT SERVICING: Gampe, F., Priesett, G. K., Dornier System GmbH, West Germany and Bentall, R. H., European Space Research and Development Centre, Noordwijk, The Netherlands; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 59
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- MULTI-CHANNEL CHOPPER SYSTEM FOR A TOTAL OZONE MAPPING SPECTROMETER; Krueger, A. J., NASA Goddard Space Flight Center, and Weilbach, A. O., Helvart Associates; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 63
- MULTI-POINT RELEASE MECHANISM; Groskopf, E.; Spar Aerospace Products, Ltd.; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 329
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- NEW CONCEPT FOR ACTUATING SPACE MECHANISMS; Strange, W. C.; NASA Goddard Space Flight Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 187
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NUTATION DAMPERS FOR SINGLE-SPIN SATELLITES; Fedor, J. V.; NASA Goddard Space Flight Center; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 83

NUTATION-DAMPER DESIGN FOR DUAL-SPIN SPACECRAFT; Spencer, T. M.; Ball Brothers Research Corporation; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 87

OPTICAL MODULE FOR THE INTEGRATED REAL-TIME CONTAMINATION MONITOR; Wrench, E. H.; General Dynamics, Convair Aerospace Division; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 271

ORBITER DOOR CLOSURE TOOLS; Acres, W. R.; Lyndon B. Johnson Space Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 19

ORBITER EMERGENCY CREW ESCAPE SYSTEM; Lofland, W. W.; Lyndon B. Johnson Space Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 33

OSO-7 SPECTROHELIOGRAPH MECHANISMS; Matteo, D. N.; General Electric Company; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. D. F. Welch, 18-19 October 1973; p. 1

PASSIVE PENDULUM WOBBLE DAMPER FOR A "LOW SPIN-RATE" JUPITER FLYBY SPACECRAFT; Fowler, R. C.; TRW Systems; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 135

PASSIVE SOLAR PANEL ORIENTATION SERVOMECHANISM; Samuels, R. L.; TRW Systems Group; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 125

PASSIVE SUN SEEKER/TRACKER AND A THERMALLY ACTIVATED POWER MODULE; Siebert, C. J. and Morris, F. A., Martin Marietta Aerospace, Denver, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984, p. 171

PASSIVELY CONTROLLED APPENDAGE DEPLOYMENT SYSTEM FOR THE SAN MARCO D/L SPACECRAFT; Lang, W. E., Frisch, H. P., and Schwartz, D. A., NASA Goddard Space Flight Center, Greenbelt, MD; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 29

PAYLOAD INSTALLATION AND DEPLOYMENT AID FOR SPACE SHUTTLE ORBITER SPACECRAFT REMOTE MANIPULATOR SYSTEM; Ross, T. O.; Lyndon B. Johnson Space Center; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 235

PAYLOAD RETENTION FITTINGS FOR SPACE SHUTTLE PAYLOAD GROUND HANDLING
MECHANISM; Cassisi, V., NASA KSC, FL; Seventeenth AMS, NASA CP-2273, Held
at Jet Propulsion Laboratory, CA; 5-6 May 1983; p. 375

PAYLOAD RETENTION LATCHES FOR THE SHUTTLE ORBITER; Renken, R. D. and
Maxwell, R. P.; Ball Aerospace Systems Division; Fifteenth AMS, NASA
CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn.
C. W. Coale, 14-15 May 1981; p. 31

PERFORMANCE OF COMPONENTS IN THE SKYLAB REFRIGERATION SYSTEM;
Daniher, C. E. Jr.; McDonnell-Douglas Astronautics Company; Ninth AMS,
NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II,
Chmn. A. C. Bond, 17-18 October 1974; p. 115

PIN PULLER IMPACT SHOCK ATTENUATION; Auclair, G. F., Leonard, B. S.,
Robbins, R. E., and Proffitt, W. L.; Lockheed Missiles & Space Company;
Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA;
Chmn.(Host) P. Bomke, 22-23 April 1976; p. 71

PIONEER F/G APPENDAGE DEPLOYMENT; Hesprich, G. V.; TRW Systems; Sixth AMS, NASA
TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl,
9-10 September 1971; p. 57

PIONEER F/G FEED MOVEMENT MECHANISM; Acker, R. M.; TRW Systems Group; Sixth
AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn.
G. G. Herzl, 9-10 September 1971; p. 21

PLY-TEAR WEBBING ENERGY ABSORBER; Stevens, G. W. H.; Royal Aircraft
Establishment, England; Seventh AMS, NASA TM X-58106, Held at NASA Manned
Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8
September 1972; p. 215

PNEUMATIC PRELOADED SCANNING SCIENCE LAUNCH LATCH SYSTEM; Kievit, J. C.;
Jet Propulsion Laboratory, California Institute of Technology; Twelfth
AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III,
Chmn. P. T. Lyman, 27-28 April 1978; p. 181

POLARIMETER FOR THE HIGH RESOLUTION ULTRAVIOLET SPECTROMETER/POLARIMETER;
Calvert, J. A.; George C. Marshall Space Flight Center; Fourteenth AMS,
NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale,
1-2 May 1980; p. 303

POLARIZER MECHANISM FOR THE SPACE TELESCOPE FAINT OBJECT; Thulson, M. D.,
Martin Marietta Aerospace, Denver, CO; Seventeenth AMS, NASA CP-2273, Held
at Jet Propulsion Laboratory, CA; Session II, Chmn. Allen J. Louviere; 5-6
May 1983; p. 97

POLYURETHANE RETAINERS FOR BALL BEARINGS; Christy, R. I.; Hughes Aircraft
Company; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center,
VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 317

POSITIVE COMMANDABLE OILER FOR SATELLITE BEARING LUBRICATION; James, G. E.; TRW Systems Group; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. A. Giovannetti, 28-29 April 1977; p. 87

PRACTICAL SMALL-SCALE EXPLOSIVE SEAM WELDING; Bement, L. J., NASA Langley Research Center, Hampton, VA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session V, Chmn. Bill M. McAnally; 5-6 May 1983; p. 227

PRECISION BEARING GIMBAL SYSTEM FOR THE TEAL RUBY PROGRAM; Lowry, C. H.; ROCKWELL INTERNATIONAL, Space Systems Group; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 143

PRECISION SIX-METER DEPLOYABLE BOOM FOR THE MARINER-VENUS-MERCURY '73 MAGNETOMETER EXPERIMENT; Burdick, H. F.; NASA Goddard Space Flight Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. F. T. Martin, 17-18 October 1974; p. 161

PRESENTATION OF THE DR. GEORGE HERZL AWARD FOR THE BEST PAPER; Ward, B. W. Jr.; NASA Goddard Space Flight Center; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session IV, Chmn. M. Briscoe, 27-28 April 1978; p. 243

PRINCIPAL AXES AND MOMENTS OF INERTIAL OF DEFORMABLE SYSTEMS; Kane, T. R.; Stanford University; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 37

PROPERTIES OF THIN-SECTION, FOUR-POINT-CONTACT BALL BEARINGS IN SPACE; Rowntree, R. A., European Space Tribology Laboratory, Risley, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 141

PYROTECHNIC SHOCK ISOLATION MECHANISM; Ikola, A. L.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 189

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RADIATIVE COOLER FOR SPACECRAFT; McCullough, J. E.; Arthur D. Little, Inc.; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 69

RADIO ASTRONOMY EXPLORER 1500-FT-LONG ANTENNA ARRAY; Angulo, E. D., NASA Goddard Space Flight Center, and Kamachaitis, W. P., Fairchild Hiller Corporation; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 37

RADIOMETER-DEPLOYMENT SUBSYSTEM; Speight, K. M.; General Electric Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 111

REFURBISHMENT OF THE CRYOGENIC COOLERS FOR THE SKYLAB EARTH RESOURCES EXPERIMENT PACKAGE; Smithson, J. C. and Luska, N. C.; Lyndon B. Johnson Space Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. A. C. Bond, 17-18 October 1974; p. 133

RELEASE MECHANISM WITH MECHANICAL REDUNDANCY; Paradise, J. J.; Lockheed Missiles & Space Company; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 121

RELEASE-ENGAGE MECHANISM FOR USE ON THE ORBITER, EVOLUTION OF; Calvert, J., NASA Marshall Space Flight Center, AL; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VIII, Chmn. Bowden W. Ward, Jr.; 5-6 May 1983; p. 357

RELIABILITY BREAKTHROUGH: AN ANTENNA DEPLOYMENT/POSITIONING MECHANISM WITH ELECTRICAL AND MECHANICAL REDUNDANCY; Olson, M. C., Briggs, L. W., and Pentecost, J. B.; Hughes Aircraft Company; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. B. W. Ward, 26-27 April 1979; p. 137

REQUIREMENT FOR DESIGNING ANALYZABLE SPACE DEPLOYABLE STRUCTURES; Woods, A. A. Jr.; Lockheed Missiles & Space Company; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 351

RESPONSE CHARACTERISTICS OF A THERMAL-HELIOTROPE SOLAR-ARRAY ORIENTATION DEVICE; Morse, F. H.; Department of Mechanical Engineering, University of Maryland; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 33

REVIEW OF THE TECHNOLOGY OF NONCONTACTING SYSTEMS; Studer, Philip A.; NASA Goddard Space Flight Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 117

ROCKET ENGINE BIPROPELLANT VALVE PROBLEMS AND CURRENT EFFORTS; Fries, J.; NASA Johnson Space Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 213

ROCKET NOZZLE AUTOMATIC RELEASE SYSTEM; Kimball, J. B.; Lockheed Missiles & Space Company; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 51

- ROLLING BEAM UMBILICAL SYSTEM; Tatem, B. C. Jr., Planning Research Corp., NASA Kennedy Space Center, FL; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VI, Chmn. Lloyd W. Briggs; 5-6 May 1983; p. 289
- ROTARY MECHANISM FOR WIND TUNNEL STALL/SPIN STUDIES; Mancini, R. E., Matsuhiro, D. S., and Vallotton, W. C.; NASA Ames Research Center; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 62
- ROTARY RELAY FOR SPACE POWER TRANSFER; Haynie, H. T.; The Boeing Company Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 25
- ROTATING ELECTRICAL TRANSFER DEVICE; Porter, R. S., Sperry Flight Systems, Phoenix, AZ; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 277
- SCANNING AND FOCUSING MECHANISMS OF METOSAT RADIOMETER; Jouan, J.; Societe Matra, France; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. O. H. Fedor, 28-29 April 1977; p. 13
- SCANNING MIRROR FOR INFRARED SENSORS; Anderson, R. H. and Bernstein, S. B.; Lockheed Missiles & Space Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 251
- SCANNING MIRROR SYSTEM FOR THE APOLLO TELESCOPE MOUNT ULTRAVIOLET SPECTROHELIOMETER; Highman, C. O.; Ball Brothers Research Corporation; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 113
- SECURING MECHANISM FOR THE DEPLOYABLE COLUMN OF THE HOOP/COLUMN ANTENNA; Ahl, E. L. Jr., NASA Langley Research Center, Hampton, VA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session III, Chmn. Dr. A. H. Hausrath; 5-6 May 1983; p. 157
- SELF-DESTRUCT CHARGE ORDNANCE COMPONENT OF THE AGENDA D VEHICLE SELF-DESTRUCT SYSTEM; Smith, A. H.; Lockheed Missiles & Space Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 171
- SEPARATION AND STAGING MECHANISMS FOR THE INDIAN SLV-3 LAUNCH VEHICLE; Majeed, M. K. A., Natarajan, K., and Krishnankutty, V. K., Indian Space Research Organization, Vikram Sarabhai Space Centre Trivandrum, India; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session V, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 277
- SHAPE OPTIMIZATION OF DISC-TYPE FLYWHEELS; Nizza, R. S.; Lockheed Missiles & Space Company; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 38

SHUTTER AND FILTER-CHANGING MECHANISM, COMBINATION; Ford, A. G. and Cutts, J. A.; Jet Propulsion Laboratory, California Institute of Technology; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 75

SHUTTER MECHANISM FOR SPACECRAFT SPECTROPHOTOMETER; Weilbach, A.; Beckman Instruments, Inc.; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 95

SIMPLIFIED SPACE MECHANISMS USING SUBLIMING SOLIDS; Kindsvater, H. M.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 239

SIMULTANEOUS SPIN/EJECT MECHANISM FOR AEROSPACE PAYLOADS; Palmer, G. D., TRW Systems Group, and Banks, T. N., AVCO Systems Division; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 165

SIX MECHANISMS USED ON THE SSM/I RADIOMETER; Ludwig, H. R., Hughes Aircraft Co., El Segundo, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985; p. 347

SKYLAB PARASOL; Kinzler, J. A.; NASA Lyndon B. Johnson Space Center; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. A. C. Bond, 17-18 October 1974; p. 99

SKYLAB TRASH AIRLOCK; Price, L. R.; McDonnell-Douglas Astronautics Company; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. A. C. Bond, 17-18 October 1974; p. 149

SMART MOTOR TECHNOLOGY; Packard D., Jet Propulsion Laboratory, Pasadena, CA, and Schmitt, D., Lockheed Missiles and Space Company; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session VI, Chmn. Dr. Richard H. Bentall; 2-4 May 1984; p. 301

SOIL SAMPLER DEVELOPMENT FOR UNMANNED PROBES; Bachle, W. H.; Philco-Ford Corporation, Space and Reentry Systems Division; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 3

SOLAR ARRAY DRIVE SYSTEM; Berkopce, F. D., Sturman, J. C., NASA Lewis Research Center, and Stanhouse, R. W., General Electric Space Systems Organization; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 185

SOLAR ARRAY, 928-M² (10,000 FT²); Lindberg, D. E.; Lockheed Missiles & Space Company; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 287

SOLAR CELL GRAVITY-STABILIZATION BOOMS; Osborne, B. D.; Lockheed Missiles & Space Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 109

SOLAR DRUM POSITIONER MECHANISMS; Briggs, L. W.; Hughes Aircraft Company; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 235

SOLID-STATE FILM TRANSPORT; Davis, C. M., TELEDYNE RYAN AERONAUTICAL, and D. B. Learish, AFAL/RSO; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 127

SOME THOUGHTS ON GEARHEAD ELECTRIC MOTORS FOR SPACECRAFT BOOM DEPLOYMENT MECHANISMS; MacNaughton, J.; Spar Aerospace Products, Ltd.; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session II, Chmn. B. E. Tingling, 22-23 May 1969; p. 47

SPACE MOLECULAR SINK SIMULATOR FACILITY; Stephens, J. B.; Jet Propulsion Laboratory, California Institute of Technology; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 1

SPACE QUALIFIED RADIATION SOURCE HOLDER; Polaski, L. J. and Zabower, H. R.; NASA Ames Research Center; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 9

SPACE SHUTTLE EXTERNAL TANK GASEOUS OXYGEN VENT SYSTEM; Franklin, W. G.; NASA John F. Kennedy Space Center; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 299

SPACE SHUTTLE MAIN ENGINE - HYDRAULIC ACTUATION SYSTEM; Geller, G. and Lamb, C. D.; NASA Marshall Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 291

SPACE SHUTTLE ORBITER AFT HEAT SHIELD SEAL; Walkover, L. J.; Rockwell International, Space Systems Group; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 251

SPACE SHUTTLE ORBITER PAYLOAD BAY DOOR MECHANISMS; McAnally, B. M.; Rockwell International, Space Systems Group; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 261

SPACE SHUTTLE ORBITER RUDDER/SPEEDBRAKE SYSTEM; Woolhouse, D., Rockwell International Corporation; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 19

SPACE SHUTTLE ORBITER SEPARATION BOLTS; Ritchie, R. S.; Transtechnology Corporation, Space Ordnance Systems Division; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. P. T. Lyman, 27-28 April 1978; p. 171

SPACE SHUTTLE PAYLOAD HANDLING ON THE LAUNCH PAD; Rado, A.; FMC Corporation; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. P. T. Lyman, 27-28 April 1978; p. 191

SPACE SHUTTLE SEPARATION MECHANISMS; Rogers, W. F., NASA Johnson Space Center; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. P. T. Lyman, 27-28 April 1978; p. 157

SPACE SHUTTLE SLIDEWIRE EMERGENCY EGRESS SYSTEM; Jeffcoat, G. B. and Stephan, E. S.; John F. Kennedy Space Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 47

SPACE SHUTTLE TAIL SERVICE MAST CONCEPT VERIFICATION; Uda, R. T.; Planning Research Corporation; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 1

SPACE TELESCOPE - SOLAR ARRAY PRIMARY DEPLOYMENT MECHANISM; Chandler, D. P. and Veit, A., Contraves AG, Zurich, Switzerland; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session I, Chmn. Dr. Hans Hintermann; 5-6 May 1983; p. 39

SPACE-DEPLOYABLE BOX TRUSS STRUCTURE DESIGN; Coyner, J. V. and Tobey, W. H.; Martin-Marietta Denver Aerospace; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 137

SPACECRAFT AUTOMATIC UMBILICAL SYSTEM; Goldin, R. W., Jacquemin, G. G., Lockheed Missiles & Space Company, and Johnson, W. H., Marshall Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 391

SPACECRAFT BOOMS: PRESENT AND FUTURE; Herzl, G. G.; Lockheed Missiles & Space Company; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session II, Chmn. B. E. Tingling, 22-23 May 1969; p. 55

SPACECRAFT HYDRAULIC TIMERS; Trimble, H. D.; Jet Propulsion Laboratory, California Institute of Technology; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 101

SPACECRAFT LAUNCH VEHICLE EVENT SEQUENCING SYSTEM; Noel, V. R.; McDonnell-Douglas Astronautics Company; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 73

SPACECRAFT MECHANISM TESTING IN THE MOLSINK FACILITY; Stephens, J. B.; Jet Propulsion Laboratory, California Institute of Technology; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 19

- SPACECRAFT SEPARATION SYSTEMS MECHANISMS: CHARACTERISTICS AND PERFORMANCE DURING HIGH-ALTITUDE FLIGHT TEST FROM NASA WALLOPS STATION, VA; Pride, J. D. Jr.; NASA Langley Research Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 165
- SPACELAB 4 - PRIMATE EXPERIMENT SUPPORT HARDWARE; Fusco, P. R. and Peyran, R. J., NASA AMES Research Center, Moffett Field, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session V, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 215
- SPHERE LAUNCHER; Reed, W. B.; Lockheed Missiles & Space Company; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 13
- SPIN-RECOVERY PARACHUTE SYSTEM FOR LIGHT GENERAL-AVIATION AIRPLANES; Bradshaw, C. F.; NASA Langley Research Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 195
- SRB DEWATERING SET; Wickham, R. E.; John F. Kennedy Space Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 279
- STATE-OF-THE-ART MATERIALS AND DESIGN FOR SPACECRAFT BOOMS; Staugaitis, C.; NASA Goddard Space Flight Center; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session II, Chmn. B. E. Tingling, 22-23 May 1969; p. 43
- STEPPER MOTOR FOR THE SURVEYOR SPACECRAFT; Glassow, F. A.; HUGHES AIRCRAFT COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 15
- STRUCTURAL EVALUATION OF DEPLOYABLE AERODYNAMIC SPIKE BOOMS; Richter, B. J.; Lockheed Missiles & Space Company; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. K. A. Faymon, 17-18 October 1974; p. 31
- STRUT WITH INFINITELY ADJUSTABLE THERMAL EXPANSIVITY AND LENGTH; Nelson, P. T.; TRW Systems Group; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. E. E. Sechler, 17-18 October 1974; p. 59
- SUMMARY OF THE ORBITER MECHANICAL SYSTEMS; Kiker, J. and Hinson, K.; Lyndon B. Johnson Space Center; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 219

- SURFACE INTERACTION BETWEEN ALUMINUM SINGLE CRYSTALS AT 10^{-10} TORR;
Frisch, J.; University of California, Berkeley; Second AMS, TM 33-355,
Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May
1967; p. 125
- SURVEYOR SHOCK ABSORBER; Sperling, F. B.; Jet Propulsion Laboratory,
California Institute of Technology; Third AMS, TM 33-382, Held at the Jet
Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968;
p. 171
- SURVEYOR TELEVISION MECHANISM; Gudikunst, J. B.; Hughes Aircraft Company;
Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G.
G. Herzl, 4-5 May 1967; p. 59
- SURVEYOR THERMAL SWITCH; Deal, T. E.; Hughes Aircraft Company; Second AMS,
TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl,
4-5 May 1967; p. 93
- SYSTEME D'ORIENTATION FINE D'ANTENNE (AN ANTENNA FINE POINTING MECHANISM);
Hubert, B. and Brunet, P.; Societe Nationale Industrielle Aerospatial,
France; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space
Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 235
- SYSTEMS APPROACH TO MECHANISMS FOR A WHITE LIGHT CORONAGRAPH/X-RAY XUV
TELESCOPE; Mastronardi, R. and Cabral, R. E.; American Science and
Engineering, Inc.; Fifteenth AMS, NASA CP-2181, Held at NASA George C.
Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 77
- TECHNOLOGY DEVELOPMENT METHODOLOGY FOR A CLASS OF LARGE DIAMETER SPACEBORNE
DEPLOYABLE ANTENNAS; Wade, W. D. and McKean, V. C.; Lockheed Missiles &
Space Company; Fifteenth AMS, NASA CP-2181, Held at NASA George C.
Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 159
- TELEPRESENCE WORK SYSTEM CONCEPTS; Jenkins, L. M., NASA Johnson Space Center,
Houston, TX; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research
Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson;
1-3 May 1985; p. 225
- TELESCOPIC BOOMS FOR THE HAWKEYE SPACECRAFT; Anderson, R. D., University of
Iowa; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center,
VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 59
- TELESCOPIC JIB FOR CONTINUOUS ADJUSTMENT; Etzler, C. Ch.; Dornier System GmbH,
Germany; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space
Center, TX; Session I, Chmn. D. G. Wong, 26-27 April 1979; p. 49
- TESTS OF A PROTECTIVE SHELL PASSIVE RELEASE MECHANISM FOR HYPERSONIC WIND-
TUNNEL MODELS; Puster, R. L. and Dunn, J. E.; NASA Langley Research
Center; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space
Center, TX; Session III, Chmn. T. E. Shoup, 26-27 April 1979; p. 167

TETHERED SATELLITE CONTROL MECHANISM; Kyrias, G. M., Martin Marietta Aerospace; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session I, Chmn. Dr. Hans Hintermann; 5-6 May 1983; p. 1

TEXTILE MECHANICAL ELEMENTS IN AEROSPACE VEHICLE PARACHUTE SYSTEMS; Lindgren, M. J. and French, K. E.; Lockheed Missiles & Space Company; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 27

THERMAL HELIOTROPE: A PASSIVE SUN-TRACKER; Byxbee, R. C. and Lott, D. R. Lockheed Missiles & Space Company; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 127

THERMOMECHANICAL PISTON PUMP DEVELOPMENT; Sabelman, E. E.; Jet Propulsion Laboratory, California Institute of Technology; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 65

THREE SIMPLE MECHANISMS TO SOLVE UNIQUE AEROSPACE PROBLEMS; Groskopf, E.; Spar Aerospace Products, Ltd.; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 121

TORQUE BALANCE CONTROL MOMENT GYROSCOPE ASSEMBLY FOR ASTRONAUT MANEUVERING; Cunningham, D. C. and Driskill, G. W.; Sperry Rand Corporation; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 121

TORQUE-WHILE-TURNAROUND SCAN MIRROR ASSEMBLY; Starkus, C. J.; Hughes Aircraft Company; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 117

TORSION WIRE DAMPING SYSTEM FOR THE DODGE SATELLITE; Howard, D. M.; Applied Physics Laboratory, The John Hopkins University; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 145

TORSIONALLY RIGID AND THERMALLY STABLE BOOM; Rushing, F. C., Simon, A. B., and Denton, C. I.; Westinghouse Defense and Space Center, Aerospace Division; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 139

TRANSDUCER TECHNOLOGY TRANSFER TO BIO-ENGINEERING APPLICATIONS; Duran, E. N., Lewis, G. W., Feldstein, C., Jet Propulsion Laboratory, California Institute of Technology, and Corday, E., Meerbaum, S., Lang, Tzu-Wang, Cedars-Sinai Medical Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 283

TRIDENT I THIRD STAGE MOTOR SEPARATION SYSTEM; Welch, B. H., Richter, B. J., and Sue, P.; Lockheed Missiles & Space Company; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. A. Giovannetti, 28-29 April 1977; p. 97

TRIPLE-AXIS COMMON-PIVOT ARM WRIST DEVICE FOR MANIPULATIVE APPLICATIONS; Kersten, L., University of Nebraska-Lincoln, and Johnston, J. D.; Marshall Space Flight Center; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 111

TWO AXIS POINTING SYSTEM FOR AN ORBITING ASTRONOMICAL INSTRUMENT; Turner, R. F. and Firth, J. G.; SRC Appleton Laboratory Astrophysics Reserach Division, Culham Laboratory; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. H. Klages, 26-27 April 1979; p. 27

TWO HUNDRED PASSAGE THREE-WAY VALVE - FRACTION COLLECTOR; Keffer, J. L., McDonnell-Douglas Astronautics Co., St. Louis, MO; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session IV, Chmn. Donald N. Matteo, 5-6 May 1983; p. 199

TWO-DIMENSIONAL OSCILLATING AIRFOIL TEST APPARATUS; Gibson, F. L., Hocker, A. J. Jr., and Matsuihiro, D. S.; NASA Ames Research Center; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 177

TWO-PLANE BALANCE AND SLIP-RING DESIGN; Luna, P. M., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session 7, Chmn. Otto Fedor, 1-3 May 1985; p. 379

ULTRAHIGH RESOLUTION STOPPER MOTORS, DESIGN, DEVELOPMENT, PERFORMANCE, AND APPLICATION; Moll, H. and Roekl, G.; Teldix GmbH, Germany; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Jones, Jr., 27-28 April 1978; p. 13

UNFOLDING THE AIR VANES ON A SUPERSONIC AIR-LAUNCHED MISSILE; Wohltmann, M. and O'Leary, M. D.; Martin-Marietta AEROSpace; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. T. E. Shoup, 26-27 April 1979; p. 207

UNIQUE CHALLENGE: EMERGENCY EGRESS AND LIFE SUPPORT EQUIPMENT AT KSC; Wadell, H. M. Jr.; Rockwell International; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 295

UNIQUE MECHANISM FEATURES OF ATS STABILIZATION BOOM PACKAGES; Lohnes, R. A., Matteo, D. N., General Electric Company, and Grimshaw, E. R., Spar Aerospace Products, Ltd.; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 179

- USE OF COMPUTER MODELING TO INVESTIGATE A DYNAMIC INTERACTION PROBLEM IN THE SKYLAB TACS QUAD-VALVE PACKAGE; Hesser, R. J. and Gershman, R.; McDonnell-Douglas Astronautics Company; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 235
- USE OF PERFLUORETHER LUBRICANTS IN UNPROTECTED SPACE ENVIRONMENTS; Baxter, B. H. and Hall, B. P., British Aerospace, Precision Products Group, Stevenage, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages, 1-3 May 1985; p. 179
- VARIABLE-VISCOSITY, VARIABLE-STIFFNESS DAMPERS, CONCEPT FOR THE DESIGN OF; Lohr, J. J.; NASA Ames Research Center; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 263
- VIBRATION ISOLATION MOUNT; Reed, R. E. Jr.; NASA Ames Research Center; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 73
- VIKING GC/MS MECHANISMS DESIGN AND PERFORMANCE; Chase, C. P. and Weilbach, O.; Beckman Instruments, Inc.; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 208
- VIKING LANDER ANTENNA DEPLOYMENT MECHANISM; Hopper, K. H. and Monitor, D. S.; Martin-Marietta Aerospace Corporation; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 257
- VIKING MECHANISMS: A POST-MISSION REVIEW; Gillespie, V. P.; NASA Langley Research Center; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. K. C. Curry, 28-29 April 1977; p. 241
- VIKING ORBITER 1975 ARTICULATION CONTROL ACTUATORS; Perkins, G. S.; Jet Propulsion Laboratory, California Institute of Technology; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 335
- VIKING SURFACE SAMPLER; Seger, R. B., Martin-Marietta Aerospace Corporation, and Gillespie, V. P., NASA Langley Research Center; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 245
- VISCOUS ROTARY VANE ACTUATOR/DAMPER; Harper, J. D., Martin-Marietta Corporation; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 198
- VOYAGER MAGNETOMETER BOOM; Miller, D. C.; Jet Propulsion Laboratory, California Institute of Technology; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 51

- WEAR-RESISTANT BALL BEARINGS FOR SPACE APPLICATIONS; Boving, H., Hintermann, H. E., Hanni, W., LSRH, Switzerland; Bondivenne, E., ESA-MPO; and Boeto, M. and Conde, E., CNES, France; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 127
- WELD-ALLOY; McDonald, J. C. and Olsen, J. C.; Lockheed Missiles & Space Company; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 155
- YO-YO DESPIN MECHANISMS; Bush, K. S.; NASA Langley Research Center; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 41
- ZERO "G" FLUID DROP INJECTOR FOR THE DROP DYNAMICS MODULE SPACELAB EXPERIMENT; Hotz, G. M.; Jet Propulsion Laboratory, California Institute of Technology; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. C. Darwin, 26-27 April 1979; p. 111
- ZERO GRAVITY TESTING OF FLEXIBLE SOLAR ARRAYS; Chung, D. T., Lockheed Missiles & Space Company, and Young, L. E., Marshall Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 115
- ZERO-G TESTING OF SATELLITE INSPECTION MECHANISMS; Lahde, R. N., Lockheed Missiles & Space Company, and Lebold, J. W., Lockheed-California Company; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 251
- ZERO-GRAVITY TISSUE-CULTURE LABORATORY; Cook, J. E., Montgomery, P. O'B. Jr., and Paul, J. S.; University of Texas Southwestern Medical School; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 81

3 LISTING BY AUTHOR

INDEX OF SYMPOSIUM PAPERS - AEROSPACE MECHANISMS SYMPOSIUM (AMS)
(ALPHABETICAL BY AUTHOR)

- Abercrombie, A. and Flatley, Dr. W.; NASA Goddard Space Flight Center; ACTIVE NUTATION DAMPER FOR SPACECRAFT; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 139
- Achtermann, E., Hostenkamp, R. G., Dornier System, and Bentall, R. H., European Space Technology Centre; DESIGN PRINCIPLES OF A ROTATION MEDIUM SPEED MECHANISM; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 52
- Acker, R. M.; TRW Systems Group; PIONEER F/G FEED MOVEMENT MECHANISM; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 21
- Acres, W. R.; Lyndon B. Johnson Space Center; ORBITER DOOR CLOSURE TOOLS; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 19
- Adams, D. V. and Alchorn, B.; Lockheed Missiles & Space Company; BALL TRUNNION CAPTURE LATCH; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 99
- Adams, J. L.; Jet Propulsion Laboratory, California Institute of Technology; HIGH-IMPACT-RESISTANT MECHANISMS; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 181
- Ahl, E. L. Jr., NASA Langley Research Center, Hampton, VA; SECURING MECHANISM FOR THE DEPLOYABLE COLUMN OF THE HOOP/COLUMN ANTENNA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 3, Chmn. Dr. A. H. Hausrath; 5-6 May 1983; p. 157
- Akkerman, J. W.; Lyndon B. Johnson Space Center; HYDRAZINE MONOPROPELLANT RECIPROCATING ENGINE DEVELOPMENT; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. H. Klages, 26-27 April 1979; p. 1
- Alchorn, B. and Adams, D. V.; Lockheed Missiles & Space Company; BALL TRUNNION CAPTURE LATCH; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 99
- Alexander, H. M.; Jet Propulsion Laboratory, California Institute of Technology; DRAGLINE SAMPLE-ACQUISITION MECHANISM; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 149

- Alfano-Bou, E., and Eichelberger, C. P., NASA Langley Research Center, Hampton, VA and Fasanella, E. L., Kenton Intl., Hampton, VA; DEVELOPMENT OF AN ENERGY ABSORBING PASSENGER SEAT FOR A TRANSPORT AIRCRAFT; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 39
- Allard, P. D., Brissette, R., Keller, F., Strizhak, E., Wester, E.; American Science and Engineering, Inc.; FOCAL PLANE TRANSPORT ASSEMBLY FOR THE HEAO-B X-RAY TELESCOPE; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 63
- Allen, B. B., Harris Corp., Melbourne, FL and Butler, D. H., NASA Langley Research Center, Hampton, VA; HOOP/COLUMN ANTENNA DEPLOYMENT MECHANISM OVERVIEW; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 23
- Allton, C. S.; Lyndon B. Johnson Space Center; MANNED MANEUVERING UNIT LATCHING MECHANISM; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 9
- Anderson, R. D., University of Iowa; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; TELESCOPIC BOOMS FOR THE HAWKEYE SPACECRAFT; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 59
- Anderson, R. H. and Bernstein, S. B.; Lockheed Missiles & Space Company; SCANNING MIRROR FOR INFRARED SENSORS; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 251
- Angulo, E. D., NASA Goddard Space Flight Center, and Kamachaitis, W. P., Fairchild Hiller Corporation; RADIO ASTRONOMY EXPLORER 1500-FT-LONG ANTENNA ARRAY; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 37
- Anstett, P., Souliac, M., Matra Ept France; Cabillic, J., Fournier, J. P., Sep, France; and Thomin, G., Cnes, France; DESIGN ASPECTS OF A SOLAR ARRAY DRIVE FOR SPOT, WITH A HIGH PLATFORM STABILITY OBJECTIVE: Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 143
- Arabian, D. D. and Mechelay, J. E.; NASA Manned Spacecraft Center; APOLLO 15 MAIN-PARACHUTE FAILURE; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 137
- Aubrun, J. N., Lorell, K. R., and Silveira, K. P., Lockheed Missiles & Space Co., Palo Alto, CA; DESIGN OPTIMIZATION OF HIGH-PERFORMANCE ELECTRODYNAMIC ACTUATORS FOR USE IN A CRYOGENICALLY COOLED TELESCOPE; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session 2, Chmn. Allen J. Louviere; 5-6 May 1983; p. 109

Auburn, J. N., Lorell, K. R., Zacharie, D. F. and Thatcher, J. B., Lockheed Palo Alto Research Laboratories, Palo Alto, CA; DESIGN OF A PRECISION ETALON POSITION CONTROL SYSTEM FOR A CRYOGENICSPECTROMETER; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 243

Auclair, G. F., Leonard, B. S., Robbins, R. E., and Proffitt, W. L.; Lockheed Missiles & Space Company; PIN PULLER IMPACT SHOCK ATTENUATION; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 71

Auer, W.; Teldix GmbH, Germany; BALL BEARING VERSUS MAGNETIC BEARING REACTION AND MOMENTUM WHEELS AS MOMENTUM ACTUATORS; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 79

Auer, W.; Teldix, Germany; BAPTA EMPLOYING ROTARY TRANSFORMERS, STEPPER MOTORS AND CERAMIC BALL BEARINGS; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 189

- Bachle, W. H.; Philco-Ford Corporation, Space and Reentry Systems Divison; SOIL SAMPLER DEVELOPMENT FOR UNMANNED PROBES; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 3
- Baisley, R. L.; Jet Propulsion Laboratory, California Institute of Technology; HELICOPTER VISUAL AID SYSTEM; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 293
- Bajo, J. M., Sainz, L. B. F., Herrera, E., and Mallard, H. J.; Aerospacial, Sener, Spain; DESIGN AND DEVELOPMENT OF AN OPTICAL SCANNING MECHANISM (OSMA) WITH MINIMUM MOMENTUM TRANSFER; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 219
- Bakke, A. P., Engelbert, D. F., Chargin, M. K. and Vallotton, W. C.; NASA Ames Research Center; MECHANICAL DESIGN OF NASA AMES RESEARCH CENTER VERTICAL MOTION SIMULATOR; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 155
- Balke, H.; Henry Balke Engineers; MOUNT MECHANISMS FOR THE SATURN V/APOLLO MOBILE LAUNCHER AT JOHN F. KENNEDY SPACE CENTER; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 373
- Banks, T. N., Avco Systems Division, and Palmer, G. D., TRW Systems Group; SIMULTANEOUS SPIN/EJECT MECHANISM FOR AEROSPACE PAYLOADS; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 165
- Barns, C. E.; NASA Ames Research Center; MARS PENETRATOR UMBILICAL; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 43
- Barzda, J. J. and Hollrock, R. H.; Kaman Aerospace Corporation; FLYING EJECTION SEAT; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 275
- Bauernschub, J. P. Jr.; NASA Goddard Space Flight Center; NONMAGNETIC EXPLOSIVE-ACTUATED INDEXING DEVICE; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 157
- Baxter, B. H. and Hall, B. P., British Aerospace, Precision Products Group, Stevenage, England; USE OF PERFLUORETHER LUBRICANTS IN UNPROTECTED SPACE ENVIRONMENTS; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 179

- Bement, L. J., NASA Langley Research Center, and Neubert, V. H., Pennsylvania State University; DEVELOPMENT OF LOW-SHOCK-PYROTECHNIC SEPARATION NUTS; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 179
- Bement, L. J.; NASA Langley Research Center; EMERGENCY IN-FLIGHT EGRESS OPENING FOR GENERAL AVIATION AIRCRAFT; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 173
- Benedict, A. G.; Jet Propulsion Laboratory, California Institute of Technology; EXPLOSIVELY ACTUATED (PYROMECHANICAL) DEVICES FOR SPACECRAFT APPLICATIONS; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 285
- Bennett, N., Sperry Flight Systems, and Preiswerk, P., Astro Research Corporation; DEPLOYMENT/RETRACTION MECHANISM FOR SOLAR MAXIMUM MISSION HIGH GAIN ANTENNA SYSTEM; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. J. H. Parks, 27-28 April 1978; p. 201
- Bentall, R. H., European Space Technology Centre, and Hostenkamp, R. G., Achtermann, E., Dornier System; DESIGN PRINCIPLES OF A ROTATING MEDIUM SPEED MECHANISM; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 52
- Bentall, R. H., European Space Agency, Estec, Netherlands, and Brunnen, A. J. D., British Aerospace Dynamics Group, England; DEVELOPMENT OF A HIGH STABILITY POINTING MECHANISM FOR WIDE APPLICATION; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 159
- Bentall, R. H., Gampe, F. and Priesett, K., Dornier System GmbH, West Germany and European Space Research and Development Centre, Noordwijk, The Netherlands; MODULAR DOCKING MECHANISM FOR IN-ORBIT ASSEMBLY AND SPACECRAFT SERVICING; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 59
- Bentall, R. H.; European Space Research and Technology Centre; CURRENT EUROPEAN DEVELOPMENTS IN SOLAR PADDLE DRIVES; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 49
- Benton, M. D. and Packard, D. T., Jet Propulsion Laboratory, Pasadena, CA; GALILEO SPACECRAFT MAGNETOMETER BOOM; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 1

- Berkopec, F. D., Sturman, J. C., NASA Lewis Research Center, and Stanhouse, R. W., General Electric Space Systems Organization; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; SOLAR ARRAY DRIVE SYSTEM; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 185
- Berner, F., Oesch, H., Goetz, K., Swiss Federal Aircraft Factory, Switzerland, and Savage, C. J., European Space Agency, ESTEC, The Netherlands; MECHANICAL DESIGN OF A VAPOR COMPRESSOR FOR A HEAT PUMP TO BE USED IN SPACE; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 329
- Bernstein, S. B. and Anderson, R. H.; Lockheed Missiles & Space Company; SCANNING MIRROR FOR INFRARED SENSORS; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 251
- Berry, T. G., Smith, G. A., and DiBiasi, L.; Fairchild Space and Electronics Company; HIGH STABILITY DEPLOYABLE BOOM; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 143
- Berry, T.; Fairchild Hiller Corporation; DEPLOYABLE SOLAR ARRAY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 51
- Billimoria, R. P.; Planning Research Corporation; DESIGN OF MECHANISMS TO LOCK/LATCH SYSTEMS UNDER ROTATIONAL OR TRANSLATIONAL MOTION; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 104
- Bingemann, K. G. Jr., Jones, J. R., and Quinn, W. J.; Hughes Aircraft Company; EVALUATION OF MECHANISMS RETURNED FROM SURVEYOR 3; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 1
- Birner, R. and Ral H.; Messerschmitt-Bolkow-Blohm GmbH, Germany; CLAMP MECHANISM FOR DEPLOYABLE THREE-TON PAYLOADS; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 375
- Birner, R. and Roth M.; Messerschmitt-Bolkow-Blohm GmbH, Germany; DRIVE UNIT FOR THE INSTRUMENT POINTING SYSTEM; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 263
- Blanchard, U. J., and Ramsey, I. W., NASA Langley Research Center and Pohlen, J. C., Maytum, B. D., Martin-Marietta Corporation; EVOLUTION OF THE VIKING LANDING GEAR; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 218

- Bloom, K. A. and Campbell, G. E.; North American Rockwell Corporation; APOLLO DOCKING SYSTEM; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 3
- Bodle, J. G. and Hackley, D. S.; General Dynamics Corporation, Convair Aerospace Division; DAMPER FOR GROUND WIND-INDUCED LAUNCH VEHICLE OSCILLATIONS; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 313
- Bodle, J. G.; General Dynamics; Convair Division, DEVELOPMENT OF A BEAM BUILDER FOR AUTOMATIC FABRICATION OF LARGE COMPOSITE SPACE STRUCTURES; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session IV, Chmn. P. A. Lord, 26-27 April 1979; p. 293
- Boeto, M. and Conde, E., CNES, France and Boving, H., Hintermann, H. E., Hanni, W., LSRH, Switzerland; Bondivenne, E., ESA-MPO; WEAR-RESISTANT BALL BEARINGS FOR SPACE APPLICATIONS; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 127
- Bondivenne, E., ESA-MPO; Hanni, W., Boving, H., Hintermann, H. E., LSRH, Switzerland; Bondivenne, E., ESA-MPO; and Boeto, M. and Conde, E., CNES, France; WEAR-RESISTANT BALL BEARINGS FOR SPACE APPLICATIONS; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 127
- Booher, R., NASA Johnson Space Center, Hooper, L., and Setzer, D. N., Nelson & Johnson Engineering, Inc.; DEVELOPMENT OF A BEDREST MUSCLE STRESS APPARATUS; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Jones, Jr., 27-28 April 1978; p. 3
- Boving, H., Hintermann, H. E., Hanni, W., LSRH, Switzerland; Bondivenne, E., ESA-MPO; and Boeto, M. and Conde, E., CNES, France; WEAR-RESISTANT BALL BEARINGS FOR SPACE APPLICATIONS; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 127
- Bradley, G.; The Boeing Company; LUNAR ORBITER PHOTO-SUBSYSTEM MECHANISMS; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 33
- Bradley, O. H. Jr.; NASA Langley Research Center; DEVELOPMENT OF A WINDOW PROTECTION ASSEMBLY FOR A SHUTTLE EXPERIMENT; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 303
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- Brandt, W. E. and Clark, A. L.; Gyrotrim Corporation; GRAVITY EXERCISES SYSTEM; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 311
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Woods, A. A. Jr.; Lockheed Missiles & Space Company; REQUIREMENT FOR DESIGNING ANALYZABLE SPACE DEPLOYABLE STRUCTURES; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 351

Woolhouse, D., Rockwell International Corporation; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; SPACE SHUTTLE ORBITER RUDDER/SPEEDBRAKE SYSTEM; Chmn. C. W. Coale, 14-15 May 1981; p. 19

Wrench, E. H. General Dynamics Corporation, and Veillette, L. NASA Goodard Space Flight Center; HARD-WIRE ROTATING COUPLING; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 33

Wrench, E. H.; General Dynamics, Convair Aerospace Division; OPTICAL MODULE FOR THE INTEGRATED REAL-TIME CONTAMINATION MONITOR; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 271

Wyn-Roberts, D., British Aircraft Corporation, Bring, G., European Space Research and Technology Centre, and Schmidt, G., Dornier System; DEVELOPMENT OF AN DYNAMIC STUDIES CONCERNING A CABLE BOOM SYSTEM PROTOTYPE; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. D. F. Welch, 18-19 October 1973; p. 15

Yang, L. C., Menichelli, V. J. and Earnest, J. E.; Jet Propulsion Laboratory, California Institute of Technology; LASER INITIATED EXPLOSIVE DEVICE SYSTEM; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. D. F. Welch, 18-19 October 1973; p. 25

Young, L. E., Marshall Space Flight Center and Chung, D. T., Lockheed Missiles & Space Company; ZERO GRAVITY TESTING OF FLEXIBLE SOLAR ARRAYS; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 115

Young, W. C., and Kirkpatrick, D. L.; General Electric Company; EVALUATION OF DRY LUBRICANTS AND BEARINGS FOR SPACECRAFT APPLICATIONS; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 77

Zabower, H. R. and Polaski, L. J.; NASA Ames Research Center; SPACE QUALIFIED RADIATION SOURCE HOLDER; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 9

Zacharie, D. F., Thatcher, J. B., Auburn, J. N. and Lorell, K. R., Lockheed Palo Alto Research Laboratories, Palo Alto, CA; DESIGN OF A PRECISION ETALON POSITION CONTROL SYSTEM FOR A CRYOGENICSPECTROMETER; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 243

Zosky, E. W., Walkover, L. J., and Hart, R. J.,; North American Rockwell Corporation; APOLLO COMMAND MODULE SIDE ACCESS HATCH SYSTEM; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 157

4. LISTING BY SUBJECT

KEYWORD INDEX OF SYMPOSIUM PAPERS - AEROSPACE MECHANISMS SYMPOSIUM (AMS)

ACQUISITION:

DRAGLINE SAMPLE-ACQUISITION MECHANISM; H. M. Alexander; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 149

ACTUATING/ACTUATION/ACTUATOR:

ACTUATOR DEVELOPMENT FOR THE INSTRUMENT POINTING SYSTEM (IPS); Suttner, K., Dornier System GmbH, Friedrichshafen, West Germany; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 1, Chmn. Otto H. Fedor; 2-4 May 1984; p. 15

APPENDAGE DEPLOYMENT MECHANISM FOR THE HUBBLE SPACE TELESCOPE PROGRAM; Greenfield, H. T., Lockheed Missiles & Space Co., Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985, p. 329

ANTENNA TRACKING MECHANISM FOR GEOSTATIONARY SATELLITES; Francis, C. M., Ford Aerospace and Communications Corporation, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 203

APPLICATION OF TRACTION DRIVES AS SERVO MECHANISMS; Lowenthal, S. H., Rohn, D. A. and Steinetz, B. M., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 119

BALL BEARING VERSUS MAGNETIC BEARING REACTION AND MOMENTUM WHEELS AS MOMENTUM ACTUATORS; W. Auer; TELDIX GmbH, GERMANY; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 79

BROADBASED ACTUATOR CONCEPT FOR SPACEFLIGHT APPLICATION; Hammond, J. C., Schaeffer Magnetics, Inc., Chatsworth, CA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session II, Chmn. Allen J. Louviere; 5-6 May 1983; p. 55

CANNON LAUNCHED ELECTROMECHANICAL CONTROL ACTUATION SYSTEM DEVELOPMENT; Johnston, J. G., Martin Marietta Aerospace, Orlando, FL; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session IV, Chmn. Donald N. Matteo; 5-6 May 1983; p. 181

DESIGN AND DEVELOPMENT OF A CONSTANT SPEED SOLAR ARRAY DRIVE; Jones, H. M. and Roger, N., Spar Aerospace Ltd., Toronto, Ontario, Canada; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 103

ACTUATING/ACTUATION/ACTUATOR: (Cont'd)

DESIGN AND DEVELOPMENT OF A LINEAR THERMAL ACTUATOR; Bush, G. and Osborne, D., Spar Aerospace Ltd., Ste. Anne de Bellevue, Quebec, Canada; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 87

DESIGN AND DEVELOPMENT OF A SOLAR TRACKING UNIT; Jones, I. W. and Miller, J. B., NASA Langley Research Center, Hampton, VA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 187

DESIGN AND DEVELOPMENT OF TWO-FAILURE TOLERANT MECHANISMS FOR THE SPACEBORNE IMAGING RADAR (SIR-B) ANTENNA; Presas, S. J., Ball Aerospace, High Technology Products, Boulder, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 131

DESIGN AND TEST OF A LOW-TEMPERATURE LINEAR DRIVER/RATE CONTROLLER; Lowry, C. H., Rockwell International, Space Transportation and Systems Group, Downey, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 65

DESIGN OF A DUAL FAULT TOLERANT SPACE SHUTTLE PAYLOAD DEPLOYMENT ACTUATOR; Teske, D. R., Sundstrand Energy Systems, Rockford, IL; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985, p. 305

DESIGN OF A PRECISION ETALON POSITION CONTROL SYSTEM FOR A CRYOGENIC SPECTROMETER; Auburn, J. N., Lorell, K. R., Zacharie, D. F. and Thatcher, J. B., Lockheed Palo Alto Research Laboratories, Palo Alto, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 243

DESIGN OF THE GALILEO REMOTE SCIENCE POINTING ACTUATORS; Osborn, F. W., Jet Propulsion Laboratory, Pasadena, CA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VIII, Chmn. Bowden W. Ward, Jr.; 5-6 May 1983; p. 315

DESIGN OPTIMIZATION OF HIGH-PERFORMANCE ELECTRODYNAMIC ACTUATORS FOR USE IN A CRYOGENICALLY COOLED TELESCOPE; Aubrun, J. N., Lorell, K. R., and Silveira, K. P., Lockheed Missiles & Space CO., Palo Alto, CA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session II, Chmn. Allen J. Louviere; 5-6 May 1983; p. 109

DRAG-COMPENSATED, PRECISION-POWERED HINGE SYSTEM; Jacquemin, G. G. and Rusk, S. J., Lockheed Missiles & Space Co; Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985; p. 75

ACTUATING/ACTUATION/ACTUATOR: (Cont'd)

DUAL FAULT TOLERANT AEROSPACE ACTUATOR; Siebert, C. J., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 293

EVOLUTION FROM A HINGE ACTUATOR MECHANISM TO AN ANTENNA DEPLOYMENT MECHANISM FOR USE ON THE EUROPEAN LARGE COMMUNICATIONS SATELLITE (L-SAT/OLYMPUS); De'Ath, M. D., British Aerospace Dynamics Group, Stevenage, Herts, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 79

FEATURES OF THE SOLAR ARRAY DRIVE MECHANISM FOR THE SPACE TELESCOPE; Hostenkamp, R. G., Dornier System GmbH, Friedrichshafen, West Germany; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 315

FLUID THERMAL ACTUATOR; B. A. Shepherd and K. R. Johnson; Astro-Electronics Division, RADIO CORPORATION OF AMERICA; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 203

HIGH PERFORMING ACTUATION SYSTEM FOR USE WITH A LOUVER ARRAY FOR SATELLITE THERMAL CONTROL; P. U. Reusser and J. A. F. Coebergh; MESSRS. PETER U. REUSSER, LTD; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 85

HIGH-RESPONSE ELECTROMECHANICAL CONTROL ACTUATOR; G. D. Goldshine and G. T. Lacy; GENERAL DYNAMICS CORPORATION; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 19

INHERENT PROBLEMS IN DESIGNING TWO-FAILURE TOLERANT ELECTROMECHANICAL ACTUATORS; Hornyak, S., General Dynamics Convair Division, San Diego, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 155

LIGHTWEIGHT BIMETALLIC ACTUATOR FOR SPACECRAFT THERMAL CONTROL; K. L. Schilling; RCA ASTRO-ELECTRONICS; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 165

LINEAR BOOM ACTUATOR DESIGNED FOR THE GALILEO SPACECRAFT; Koch, E. F., Jet Propulsion Laboratory, Pasadena, CA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session II, Chmn. Allen J. Louviere; 5-6 May 1983; p. 81

ACTUATING/ACTUATION/ACTUATOR: (Cont'd)

NEW CONCEPT FOR ACTUATING SPACE MECHANISMS; W. C. Strange; NASA GODDARD SPACE FLIGHT CENTER; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 187

NONMAGNETIC, LIGHTWEIGHT OSCILLATING ACTUATOR; D. K. McCarthy; NASA GODDARD SPACE FLIGHT CENTER; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 163

MARINER IV SCIENCE PLATFORM STRUCTURE AND ACTUATOR DESIGN, DEVELOPMENT, AND PERFORMANCE; G. Coyle and E. Floyd; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 145

MARINER MARS 1969 SCAN ACTUATOR; G. S. Perkins; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 103

MARINER MARS 1971 GIMBAL ACTUATOR; G. S. Perkins; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY, Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 185

MJS-77 MAGNETOMETER ACTUATOR; William C. Stange; NASA GODDARD SPACE FLIGHT CENTER; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. J. H. Parks, 28-29 April 1977; p. 77

PASSIVE SUN SEEKER/TRACKER AND A THERMALLY ACTIVATED POWER MODULE; Siebert, C. J. and Morris, F. A., Martin Marietta Aerospace, Denver, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984, p. 171

SIX MECHANISMS USED ON THE SSM/I RADIOMETER; Ludwig, H. R., Hughes Aircraft Co., El Segundo, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985; p. 347

SMART MOTOR TECHNOLOGY; Packard, D., Jet Propulsion Laboratory, Pasadena, CA, and Schmitt, D., Lockheed Missiles and Space Company; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 6, Chmn. Dr. Richard H. Bentall; 2-4 May 1984; p. 301

SPACE SHUTTLE MAIN ENGINE - HYDRAULIC ACTUATION SYSTEM; G. Geller and C. D. Lamb; NASA MARSHALL SPACE FLIGHT CENTER; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 291

ACTUATING/ACTUATION/ACTUATOR: (Cont'd)

VIKING ORBITER 1975 ARTICULATION CONTROL ACTUATORS; G. S. Perkins; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 335

ADAPTER:

MECHANICAL ADAPTER FOR INSTALLING MISSION EQUIPMENT ON LARGE SPACE STRUCTURES; A. LeFever and R. S. Totah; Space Operations and Satellite Systems Division, ROCKWELL INTERNATIONAL CORPORATION; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 237

ADVANCED TURBOPROP PROGRAM:

TWO-PLANE BALANCE AND SLIP-RING DESIGN; Luna, P. M., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985; p. 379

AIRCRAFT:

CIRCULATION CONTROL LIFT GENERATION EXPERIMENT: HARDWARE DEVELOPMENT; Panontin, T. L., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985, p. 363

TWO-PLANE BALANCE AND SLIP-RING DESIGN; Luna, P. M., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985; p. 379

AIRFOIL:

CIRCULATION CONTROL LIFT GENERATION EXPERIMENT: HARDWARE DEVELOPMENT; Panontin, T. L., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985, p. 363

AIRLOCK:

SKYLAB TRASH AIRLOCK; L. R. Price; McDONNELL-DOUGLAS ASTRONAUTICS COMPANY; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. A. C. Bond, 17-18 October 1974; p. 149

AIR VANES:

UNFOLDING THE AIR VANES ON A SUPERSONIC AIR-LAUNCHED MISSILE; M. Wohltmann and M. D. O'Leary; MARTIN-MARIETTA AEROSPACE; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. T. E. Shoup, 26-27 April 1979; p. 207

ALIGNMENT SYSTEM:

LUNAR MODULE ALIGNMENT SYSTEM; R. A. Hilderman, W. H. Mueller, and M. Mantus; GRUMMAN AIRCRAFT ENGINEERING CORPORATION; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 67

ANGLE-OF-ATTACK SENSOR:

ANALYSIS OF A SATELLITE ANGLE-OF-ATTACK SENSOR; W. E. Frye; LOCKHEED MISSILES & SPACE COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 277

ANTENNA:

ANTENNA TRACKING MECHANISM FOR GEOSTATIONARY SATELLITES; Francis, C. M., Ford Aerospace and Communications Corporation, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 203

EVOLUTION FROM A HINGE ACTUATOR MECHANISM TO AN ANTENNA DEPLOYMENT MECHANISM FOR USE ON THE EUROPEAN LARGE COMMUNICATIONS SATELLITE (L-SAT/OLYMPUS); De'Ath, M. D., British Aerospace Dynamics Group, Stevenage, Herts, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 79

HOOP/COLUMN ANTENNA DEPLOYMENT MECHANISM OVERVIEW; Allen, B. B., Harris Corp., Melbourne, FL and Butler, D. H., NASA Langley Research Center, Hampton, VA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 23

ANTIBACK-DRIVE DEVICE:

DESIGN AND DEVELOPMENT OF A SPACECRAFT APPENDAGE TIE DOWN MECHANISM; Nygren, W. D. and Head, K., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985, p. 167

BALL BEARINGS:

PROPERTIES OF THIN-SECTION FOUR-POINT-CONTACT BALL BEARINGS IN SPACE; Rowntree, R. A., European Space Tribology Laboratory, Risley, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 141

USE OF PERFLUORETHER LUBRICANTS IN UNPROTECTED SPACE ENVIRONMENTS; Baxter, B. H. and Hall, B. P., British Aerospace, Precision Products Group, Stevenage, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 179

BALL SCREW:

DESIGN AND DEVELOPMENT OF A SPACECRAFT APPENDAGE TIE DOWN MECHANISM; Nygren, W. D. and Head, K., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985, p. 167

DESIGN OF A DUAL FAULT TOLERANT SPACE SHUTTLE PAYLOAD DEPLOYMENT ACTUATOR; Teske, D. R., Sundstrand Energy Systems, Rockford, IL; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985, p. 305

DUAL FAULT TOLERANT AEROSPACE ACTUATOR; Siebert, C. J., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 293

BEAM:

DESIGN AND OPERATION OF A DEPLOYABLE TRUSS STRUCTURE; Miura, K., The Institute of Space and Astronautical Science, Tokyo, Japan; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 49

BEAM BUILDER:

AUTOMATED BEAM BUILDER; W. K. Muench; GRUMMAN AEROSPACE CORPORATION; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 247

DEVELOPMENT OF A BEAM BUILDER FOR AUTOMATIC FABRICATION OF LARGE COMPOSITE SPACE STRUCTURES; J. G. Bodle; Convair Division, GENERAL DYNAMICS; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session IV, Chmn. P. A. Lord, 26-27 April 1979; p. 293

BEARING(S)/BEARING GIMBALS/BEARING REACTORS:

A BAPTA EMPLOYING ROTARY TRANSFORMERS, STEPPER MOTORS AND CERAMIC BALL BEARINGS; W. Auer; TELDIX, GERMANY; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 189

ACCELERATED VACUUM TESTING OF LONG LIFE BALL BEARINGS AND SLIPRINGS; C. R. Meeks, R. I. Christy, and A. C. Cunningham; HUGHES AIRCRAFT COMPANY; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 127

ADVANCES IN SPUTTERED AND ION PLATED SOLID FILM LUBRICATION; Spalvins, T., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985, p. 209

BALL BEARING VERSUS MAGNETIC BEARING REACTION AND MOMENTUM WHEELS AS MOMENTUM ACTUATORS; W. Auer; TELDIX GmbH, GERMANY; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 79

CONICAL PIVOT BEARINGS FOR SPACE APPLICATIONS; G. G. Herzl; LOCKHEED MISSILES & SPACE COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 203

CONTROLLED-LEAKAGE SEALING OF BEARINGS FOR FLUID LUBRICATION IN A SPACE VACUUM ENVIRONMENT; H. I. Silversher; LOCKHEED MISSILES & SPACE COMPANY; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 93

COMPACT MAGNETIC BEARING FOR GIMBALED MOMENTUM WHEEL; Yabu-uchi, K., Inoue, M., and Akishita, S., Mitsubishi Electric Corp., Amagasaki, Japan; Murakami, C. and Okamoto, O., National Aerospace Laboratory, Tokyo, Japan; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VIII, Chmn. Bowden W. Ward, Jr.; 5-6 May 1983; p. 333

DESIGN AND DEVELOPMENT OF A MOMENTUM WHEEL WITH MAGNETIC BEARINGS; L. J. Veillette; NASA GODDARD SPACE FLIGHT CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 131

DEVELOPMENT OF BEARINGS FOR NUCLEAR REACTORS IN SPACE; W. J. Kurzeka; ATOMICS INTERNATIONAL; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 85

EFFECTS OF ENERGY DISSIPATION IN THE BEARING ASSEMBLIES OF DUAL-SPIN SPACECRAFT; M. P. Scher; TRW SYSTEMS GROUP; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 143

BEARING(S)/BEARING GIMBALS/BEARING REACTORS: (Cont'd)

ESTIMATION OF BEARING CONTACT ANGLE IN-SITU BY X-RAY KINEMATOGRAPHY; P. H. Fowler, TRW SPACE AND TECHNOLOGY GROUP, and F. Manders, BALL AEROSPACE SYSTEMS DIVISION; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 189

EVALUATION OF DRY LUBRICANTS AND BEARINGS FOR SPACECRAFT APPLICATIONS; D. L. Kirkpatrick and W. C. Young; GENERAL ELECTRIC COMPANY; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 77

FORWARD BEARING REACTOR MECHANISM FOR TITAN IIIE/CENTAUR D-1T SPACE LAUNCH VEHICLE; R. A. Jones; Convair Aerospace Division, GENERAL DYNAMICS CORPORATION; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. K. A. Faymon, 17-18 October 1974; p. 1

GIMBAL BEARING DESIGN CONSIDERATIONS AND FRICTION CONTROL; N. R. Kramer; HUGHES AIRCRAFT COMPANY; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. D. G. Wong, 26-27 April 1979; p. 71

LUBRICATION OF DC MOTORS, SLIP RINGS, BEARINGS, AND GEARS FOR LONG-LIFE SPACE APPLICATIONS; B. J. Perrin and R. W. Mayer; BALL BROTHERS RESEARCH CORPORATION; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 65

MECHANISMS OF UK RADIOMETERS FLOWN ON NIMBUS 5 AND 6 WITH PARTICULAR REFERENCE TO BEARINGS, PIVOTS AND LUBRICATION; H. Hadley; Rutherford and Appleton Laboratories, SCIENCE RESEARCH COUNCIL U.K.; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 101

POLYURETHANE RETAINERS FOR BALL BEARINGS; R. I. Christy; HUGHES AIRCRAFT COMPANY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 317

PRECISION BEARING GIMBAL SYSTEM FOR THE TEAL RUBY PROGRAM; C. H. Lowry; Space Systems Group, ROCKWELL INTERNATIONAL; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 143

PROPERTIES OF THIN-SECTION FOUR-POINT-CONTACT BALL BEARINGS IN SPACE; Rowntree, R. A., European Space Tribology Laboratory, Risley, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 141

BEARING(S)/BEARING GIMBALS/BEARING REACTORS: (Cont'd)

SIX MECHANISMS USED ON THE SSM/I RADIOMETER; Ludwig, H. R., Hughes Aircraft Co., El Segundo, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985; p. 347

USE OF PERFLUORETHER LUBRICANTS IN UNPROTECTED SPACE ENVIRONMENTS; Baxter, B. H. and Hall, B. P., British Aerospace, Precision Products Group, Stevenage, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 179

WEAR-RESISTANT BALL BEARINGS FOR SPACE APPLICATIONS; H. Boving, H. E. Hintermann, W. Hanni, LSRH, SWITZERLAND; E. Bondivenne, ESA-MPO; and M. Boeto and E. Conde, CNES, FRANCE; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 127

BIOSATELLITE:

DEVELOPMENT OF PAYLOAD SUBSYSTEM-PRIMATE MISSION-BIOSATELLITE PROGRAM; J. F. Hall, Jr.; Reentry and Environmental Systems Division, GENERAL ELECTRIC COMPANY; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 177

BOOM:

GALILEO SPACECRAFT MAGNETOMETER BOOM; Packard, D. T. and Benton, M. D., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 1

PASSIVELY CONTROLLED APPENDAGE DEPLOYMENT SYSTEM FOR THE SAN MARCO D/L SPACECRAFT; Lang, W. E., Frisch, H. P., and Schwartz, D. A., NASA Goddard Space Flight Center, Greenbelt, MD; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 29

BOOM/BOOM MECHANISMS:

APOLLO 15 DEPLOYABLE BOOM ANOMALY; R. D. White; NASA MANNED SPACECRAFT CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 15

CHECKLIST FOR BOOM SELECTION; J. M. Talcott; FAIRCHILD HILLER CORPORATION; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Chmn. B. E. Tingling, 22-23 May 1969; p. 51

BOOM/BOOM MECHANISMS: (Cont'd)

LINEAR BOOM ACTUATOR DESIGNED FOR THE GALILEO SPACECRAFT; Koch, E. F., Jet Propulsion Laboratory, Pasadena, CA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session II, Chmn. Allen J. Louviere; 5-6 May 1983; p. 81

DEVELOPMENT OF AND DYNAMIC STUDIES CONCERNING A CABLE BOOM SYSTEM PROTOTYPE; G. Bring, EUROPEAN SPACE RESEARCH AND TECHNOLOGY CENTRE, G. Schmidt, DORNIER SYSTEM, and D. Wyn-Roberts, BRITISH AIRCRAFT CORPORATION; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. D. F. Welch, 18-19 October 1973; p. 15

EXTENDIBLE BOOM DEVICE; W. C. Gamble; LOCKHEED MISSILES & SPACE COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p.27

GEOS 20M CABLE BOOM MECHANISM; G. K. Schmidt and K. Suttner; DORNIER SYSTEMS GmbH, GERMANY; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 153

GEOS AXIAL BOOMS; G. K. Schmidt; DORNIER SYSTEMS GmbH, GERMANY; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. F. T. Martin, 27-28 April 1978; p. 211

HIGH STABILITY DEPLOYABLE BOOM; G. A. Smith, T. G. Berry, and L. DiBiasi; FAIRCHILD SPACE AND ELECTRONICS COMPANY; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 143

MAGSAT MAGNETOMETER BOOM; J. F. Smola, W. E. Radford, and M. H. Reitz; Applied Physics Laboratory, THE JOHN HOPKINS UNIVERSITY; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 267

NEW CLOSED TUBULAR EXTENDIBLE BOOM; B. B. Rennie; THE BOEING COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 163

PRECISION SIX-METER DEPLOYABLE BOOM FOR THE MARINER-VENUS-MERCURY '73 MAGNETOMETER EXPERIMENT; H. F. Burdick; NASA GODDARD SPACE FLIGHT CENTER; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. F. T. Martin, 17-18 October 1974; p. 161

SOLAR CELL GRAVITY-STABILIZATION BOOMS; B. D. Osborne; LOCKHEED MISSILES & SPACE COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 109

BOOM/BOOM MECHANISMS: (Cont'd)

SOME THOUGHTS ON GEARHEAD ELECTRIC MOTORS FOR SPACECRAFT BOOM DEPLOYMENT MECHANISMS; J. MacNaughton; SPAR AEROSPACE PRODUCTS, LTD.; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session II, Chmn. B. E. Tingling, 22-23 May 1969; p. 47

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STATE-OF-THE-ART MATERIALS AND DESIGN FOR SPACECRAFT BOOMS; C. Staugaitis; NASA GODDARD SPACE FLIGHT CENTER; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session II, Chmn. B. E. Tingling, 22-23 May 1969; p. 43

STRUCTURAL EVALUATION OF DEPLOYABLE AERODYNAMIC SPIKE BOOMS; B. J. Richter; LOCKHEED MISSILES & SPACE COMPANY; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. K. A. Faymon, 17-18 October 1974; p. 31

TELESCOPIC BOOMS FOR THE HAWKEYE SPACECRAFT; R. D. Anderson, UNIVERSITY OF IOWA; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 59

TORSIONALLY RIGID AND THERMALLY STABLE BOOM; F. C. Rushing, A. B. Simon, and C. I. Denton; Aerospace Division, WESTINGHOUSE DEFENSE AND SPACE CENTER; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 139

VOYAGER MAGNETOMETER BOOM; D. C. Miller; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 51

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BRAKES:

LOAD PROPORTIONAL SAFETY BRAKE; M. J. Cacciola; BOEING COMMERCIAL AIRPLANE COMPANY; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. C. Darwin, 26-27 April 1979; p. 95

BRUSHES:

IMPROVING SLIPRING PERFORMANCE; Matteo, D. N., General Electric Co., Space Systems Division, Philadelphia, PA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 111

CAGING MECHANISM:

CAGING MECHANISM FOR A DRAG-FREE SATELLITE POSITION SENSOR; R. Hacker, J. Mathiesen, and D. B. DeBra; STANFORD UNIVERSITY; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 125

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CANISTER:

A MOTOR CANISTER DESIGNED FOR PROLONGED OPERATION IN SPACE; A. Wells; SPAR AEROSPACE PRODUCTS, LTD.; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 137

FRANGIBLE GLASS CANISTERS; R. Seifert; AEROSPACE CORPORATION; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 91

CARTRIDGE FIRING DEVICE:

CARTRIDGE FIRING DEVICE DESIGNED FOR ATTACHMENT, RELEASE, AND EJECTION OF A SATELLITE; L. Pierron; AVIONS MARCEL DESSAULT, FRANCE; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. J. H. Parks, 28-29 April 1977; p. 67

CENTRIFUGE:

NATIONAL GEOTECHNICAL CENTRIFUGE; J. A. Hallam, N. Kunz, and W. C. Vallotton; NASA AMES RESEARCH CENTER; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 201

CIRCULATING PUMP:

FLUID CIRCULATING PUMP OPERATED BY SAME INCIDENT SOLAR ENERGY WHICH HEATS ENERGY COLLECTION FLUID; E. R. Collins; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 47

CIRCULATION CONTROL:

CIRCULATION CONTROL LIFT GENERATION EXPERIMENT: HARDWARE DEVELOPMENT; Panontin, T. L., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985, p. 363

CLAES:

DESIGN OF A PRECISION ETALON POSITION CONTROL SYSTEM FOR A CRYOGENIC SPECTROMETER; Auburn, J. N., Lorell, K. R., Zacharie, D. F. and Thatcher, J. B., Lockheed Palo Alto Research Laboratories, Palo Alto, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 243

CLAMP MECHANISM:

A CLAMP MECHANISM FOR DEPLOYABLE THREE-TON PAYLOADS; R. Birner and H. Ral; MESSERSCHMITT-BOLKOW-BLOHM GmbH, GERMANY; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 375

CLOSURE:

ORBITER DOOR CLOSURE TOOLS; W. R. Acres; LYNDON B. JOHNSON SPACE CENTER; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 19

COALIGNMENT:

COALIGNMENT OF SPACECRAFT EXPERIMENTS; R. E. Federline; NASA GODDARD SPACE FLIGHT CENTER; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 91

COMPRESSION SPRINGS:

COMPRESSION SPRINGS AT ELEVATED TEMPERATURES; M. J. Siegel; UNIVERSITY OF SOUTHERN CALIFORNIA; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 223

COMPUTER-AIDED DESIGN:

COMPUTER-AIDED DESIGN AND ANALYSIS OF MECHANISMS; F. L. Knight; THE AEROSPACE CORPORATION; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 175

COMPUTER GRAPHICS:

AN APPLICATION OF INTERACTIVE COMPUTER GRAPHICS TECHNOLOGY TO THE DESIGN OF DISPERSAL MECHANISMS; B. J. Richter and B. H. Welch; LOCKHEED MISSILES & SPACE COMPANY; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. C. R. Meeks, 28-29 April 1977; p. 57

COMPUTER MODELING:

USE OF COMPUTER MODELING TO INVESTIGATE A DYNAMIC INTERACTION PROBLEM IN THE SKYLAB TACS QUAD-VALVE PACKAGE; R. J. Hesser and R. Gershman; McDONNELL-DOUGLAS ASTRONAUTICS COMPANY; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 235

CONTAMINATION MONITOR:

OPTICAL MODULE FOR THE INTEGRATED REAL-TIME CONTAMINATION MONITOR; E. H. Wrench; Convair Aerospace Division, GENERAL DYNAMICS; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 271

CONTROL MECHANISM:

CONTROL VALVE: HOT GAS FAST RESPONSE; J. T. Hollis, A. B. Killebrew, and J. M. Smith; McDONNELL-DOUGLAS ASTRONAUTICS; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 237

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IUS THRUST VECTOR CONTROL (TVC) SERVO SYSTEM; G. E. Conner; Chemical Systems Division, UNITED TECHNOLOGIES; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session IV, Chmn. P. A. Lord, 26-27 April 1979; p. 271

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COOLER:

RADIATIVE COOLER FOR SPACECRAFT; J. E. McCullough; ARTHUR D. LITTLE, INC.; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 69

COUPLING:

A HARD-WIRE ROTATING COUPLING; E. H. Wrench, GENERAL DYNAMICS CORPORATION, and L. Veillette, NASA GODDARD SPACE FLIGHT CENTER; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 33

CRYSTALS:

SURFACE INTERACTION BETWEEN ALUMINUM SINGLE CRYSTALS AT 10^{-10} TORR; J. Frisch; UNIVERSITY OF CALIFORNIA, BERKELEY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 125

CUSTOMER'S OPINION:

THE DESIGN OF AEROSPACE MECHANISMS-A CUSTOMER'S OPINION; Maj. J. C. McSherry; Detachment 6, Office of Aerospace Research, UNITED STATES AIR FORCE; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 91

DAMPER(S)/DAMPING SYSTEMS:

A CONCEPT FOR THE DESIGN OF VARIABLE-VISCOSITY, VARIABLE-STIFFNESS DAMPERS; J. J. Lohr; NASA AMES RESEARCH CENTER; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 263

A DAMPER FOR GROUND WIND-INDUCED LAUNCH VEHICLE OSCILLATIONS; J. G. Bodle and D. S. Hackley; Convair Aerospace Division, GENERAL DYNAMICS CORPORATION; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 313

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A PASSIVE PENDULUM WOBBLE DAMPER FOR A "LOW SPIN-RATE" JUPITER FLYBY SPACECRAFT; R. C. Fowler; TRW SYSTEMS; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 135

AN ACTIVE NUTATION DAMPER FOR SPACECRAFT; A. Abercrombie and Dr. W. Flatley; NASA GODDARD SPACE FLIGHT CENTER; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 139

DAMPER(S)/DAMPING SYSTEMS: (Cont'd)

DAMPER DESIGN FROM A STRUCTURAL ENGINEER'S POINT OF VIEW; J. C. Chen; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 59

DEVELOPMENT OF A PASSIVE DAMPER FOR A GRAVITY-GRADIENT STABILIZED SPACECRAFT; E. J. Buerger; Spacecraft Department, GENERAL ELECTRIC COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 297

DEVELOPMENT OF GRAVITY-GRADIENT DAMPERS; M. E. Johnson and S. H. Marx; Space and Reentry Systems Division, PHILCO-FORD CORPORATION; Third AMS TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 211

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GALILEO SPACECRAFT MAGNETOMETER BOOM; Packard, D. T. and Benton, M. D., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 1

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LOW NUTATION-RATE DAMPERS; B. E. Tossman; Applied Physics Laboratory, THE JOHN HOPKINS UNIVERSITY; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 97

MARINER-IV STRUCTURAL DAMPERS; P. T. Lyman; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 37

NUTATION DAMPERS FOR MANNED SPACECRAFT; P. R. Kurzhals; NASA LANGLEY RESEARCH CENTER; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 103

NUTATION DAMPERS FOR SINGLE-SPIN SATELLITES; J. V. Fedor; NASA GODDARD SPACE FLIGHT CENTER; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 83

DAMPER(S)/DAMPING SYSTEMS: (Cont'd)

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NUTATION-DAMPER DESIGN FOR DUAL-SPIN SPACECRAFT; T. M. Spencer; BALL BROTHERS RESEARCH CORPORATION; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 87

SIX MECHANISMS USED ON THE SSM/I RADIOMETER; Ludwig, H. R., Hughes Aircraft Co., El Segundo, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985; p. 347

TORSION WIRE DAMPING SYSTEM FOR THE DODGE SATELLITE; D. M. Howard; Applied Physics Laboratory, THE JOHN HOPKINS UNIVERSITY; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 145

VISCOUS ROTARY VANE ACTUATOR/DAMPER; J. D. Harper, MARTIN-MARIETTA CORPORATION; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 198

DEFORMABLE SYSTEM:

PRINCIPAL AXES AND MOMENTS OF INERTIAL OF DEFORMABLE SYSTEMS; T. R. Kane; STANFORD UNIVERSITY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 37

DEPLOY:

KU BAND DEPLOYED ASSEMBLY AND GIMBAL; T. E. Deal; HUGHES AIRCRAFT COMPANY; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 163

MECHANISMS FOR RESTRAINING AND DEPLOYING A 50-KW SOLAR ARRAY; T. Haynie and A. Kriger; THE BOEING COMPANY; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 55

MECHANISMS TO DEPLOY THE TWO-STAGE IUS FROM THE SHUTTLE CARGO BAY, H. T. Haynie; BOEING AEROSPACE COMPANY; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 1

ON THE DESIGN OF LARGE SPACE DEPLOYABLE MODULAR ANTENNA REFLECTORS; J. W. Ribble and A. A. Woods, Jr.; LOCKHEED MISSILES & SPACE COMPANY; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 147

DEPLOY: (Cont'd)

PIONEER F/G APPENDAGE DEPLOYMENT; G. V. Hesprich; TRW SYSTEMS; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 57

RELIABILITY BREAKTHROUGH: AN ANTENNA DEPLOYMENT/POSITIONING MECHANISM WITH ELECTRICAL AND MECHANICAL REDUNDANCY; M. C. Olson, L. W. Briggs, and J. B. Pentecost; HUGHES AIRCRAFT COMPANY; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. B. W. Ward, 26-27 April 1979; p. 137

THE REQUIREMENT FOR DESIGNING ANALYZABLE SPACE DEPLOYABLE STRUCTURES; A. A. Woods, Jr.; LOCKHEED MISSILES & SPACE COMPANY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 351

VIKING LANDER ANTENNA DEPLOYMENT MECHANISM; K. H. Hopper and D. S. Monitor; MARTIN-MARIETTA AEROSPACE CORPORATION; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 257

DEPLOYABLE TRUSS:

11-METER DEPLOYABLE TRUSS FOR THE SEASAT RADAR ANTENNA; B. E. Campbell, ASTRO RESEARCH CORPORATION and W. Hawkins, BALL BROTHERS RESEARCH CORPORATION; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 77

DESIGN, DEVELOPMENT AND MECHANIZATION OF A PRECISION DEPLOYABLE TRUSS WITH OPTIMIZED STRUCTURAL EFFICIENCY FOR SPACEBORNE APPLICATIONS; N. D. Craighead, T. D. Hult, and R. J. Preliasco; LOCKHEED MISSILES & SPACE COMPANY; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 315

DESIGN AND OPERATION OF A DEPLOYABLE TRUSS STRUCTURE; Miura, K., The Institute of Space and Astronautical Science, Tokyo, Japan; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 49

SPACE-DEPLOYABLE BOX TRUSS STRUCTURE DESIGN; J. V. Coyner and W. H. Tobey; MARTIN-MARIETTA DENVER AEROSPACE; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 137

DEPLOYMENT FIXTURE:

A DEPLOYMENT FIXTURE FOR THE SIMULATED ZERO-GRAVITY TESTING OF A LARGE-AREA SOLAR ARRAY; J. A. Lackey; THE BOEING COMPANY; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 83

DEPLOYMENT MECHANISM:

ACTUATOR DEVELOPMENT FOR THE INSTRUMENT POINTING SYSTEM (IPS);
Suttner, K., Dornier System GmbH, Friedrichshafen, West Germany;
Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center,
MD; Session 1, Chmn. Otto H. Fedor; 2-4 May 1984; p. 15

A DEPLOYMENT MECHANISM FOR THE DOUBLE ROLL-OUT FLEXIBLE SOLAR ARRAY ON THE
SPACE TELESCOPE; T. R. Cawsey; Bristol Division, BRITISH AEROSPACE, PLC,
ENGLAND; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space
Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 223

APPENDAGE DEPLOYMENT MECHANISM FOR THE HUBBLE SPACE TELESCOPE PROGRAM;
Greenfield, H. T., Lockheed Missiles & Space Co., Sunnyvale, CA;
Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett
Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985, p. 329

DEPLOYMENT MECHANISMS ON PIONEER VENUS PROBES; W. L. Townsend,
R. H. Miyakawa, and F. R. Meadows; HUGHES AIRCRAFT COMPANY; Twelfth AMS,
NASA CP-2080, Held at NASA Ames Research Center, CA; Session II, Chmn.
R. K. Pefley, 27-28 April 1978; p. 143

DESIGN AND ANALYSIS CONSIDERATIONS FOR DEPLOYMENT MECHANISMS IN A SPACE
ENVIRONMENT; P. L. Vorlicek, J. V. Gore, and C. T. Plescia; FORD AEROSPACE
AND COMMUNICATIONS CORPORATION; Sixteenth AMS, NASA CP-2221, Held at NASA
John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 211

DESIGN AND DEVELOPMENT OF TWO-FAILURE TOLERANT MECHANISMS FOR THE
SPACEBORNE IMAGING RADAR (SIR-B) ANTENNA; Presas, S. J., Ball Aerospace,
High Technology Products, Boulder, CO; Eighteenth AMS, NASA CP-2311, Held
at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted
Schroeder; 2-4 May 1984; p. 131

DESIGN AND TEST OF A LOW-TEMPERATURE LINEAR DRIVER/RATE CONTROLLER;
Lowry, C. H., Rockwell International, Space Transportation and Systems
Group, Downey, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard
Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984;
p. 65

DESIGN OF A DUAL FAULT TOLERANT SPACE SHUTTLE PAYLOAD DEPLOYMENT ACTUATOR;
Teske, D. R., Sundstrand Energy Systems, Rockford, IL; Nineteenth AMS,
NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA;
Session VI, Chmn. William G. Smith; 1-3 May 1985, p. 305

DUAL FAULT TOLERANT AEROSPACE ACTUATOR; Siebert, C. J., Martin Marietta
Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames
Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith;
1-3 May 1985; p. 293

DEPLOYMENT MECHANISM: (Cont'd)

EVOLUTION FROM A HINGE ACTUATOR MECHANISM TO AN ANTENNA DEPLOYMENT MECHANISM FOR USE ON THE EUROPEAN LARGE COMMUNICATIONS SATELLITE (L-SAT/OLYMPUS); De'Ath, M. D., British Aerospace Dynamics Group, Stevenage, Herts, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 79

GALILEO SPACECRAFT MAGNETOMETER BOOM; Packard, D. T. and Benton, M. D., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 1

HOOP/COLUMN ANTENNA DEPLOYMENT MECHANISM OVERVIEW; Allen, B. B., Harris Corp., Melbourne, FL and Butler, D. H., NASA Langley Research Center, Hampton, VA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 23

INHERENT PROBLEMS IN DESIGNING TWO-FAILURE TOLERANT ELECTROMECHANICAL ACTUATORS; Hornyak, S., General Dynamics Convair Division, San Diego, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 155

LUNAR ROVING VEHICLE DEPLOYMENT MECHANISM; A. B. Hunter and B. W. Spacey; THE BOEING COMPANY; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 101

SOME THOUGHTS ON GEARHEAD ELECTRIC MOTORS FOR SPACECRAFT BOOM DEPLOYMENT MECHANISMS; J. MacNaughton; SPAR AEROSPACE PRODUCTS, LTD.; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session II, Chmn. B. E. Tingling, 22-23 May 1969; p. 47

DEPLOYMENT SYSTEM:

ELECTRON ECHO 6 MECHANICAL DEPLOYMENT SYSTEMS; Meyers, S. C., NASA Goddard Space Flight Center, Greenbelt, MD; Steffen, J. E., Malcolm, P. R. and Winckler, J. R., University of Minnesota, Minneapolis, MN; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984 p. 263

METEOROID-DETECTOR DEPLOYMENT AND PRESSURIZATION SYSTEMS; H. C. Halliday; NASA LANGLEY RESEARCH CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 229

DEPLOYMENT SYSTEM: (Cont'd)

PASSIVELY CONTROLLED APPENDAGE DEPLOYMENT SYSTEM FOR THE SAN MARCO D/L SPACECRAFT; Lang, W. E., Frisch, H. P., and Schwartz, D. A., NASA Goddard Space Flight Center, Greenbelt, MD; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 29

RADIOMETER-DEPLOYMENT SUBSYSTEM; K. M. Speight; GENERAL ELECTRIC COMPANY; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 111

DESPIN ASSEMBLY:

A DESPIN ASSEMBLY FOR THE TACOMSAT COMMUNICATIONS SATELLITE; C. R. Meeks; HUGHES AIRCRAFT COMPANY; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Chmn. H. Frankel, Session III, 22-23 May 1969; p. 95

DESPIN/DESPINNING:

BRUSHLESS DESPIN DRIVE AND CONTROL FOR A COMMUNICATION SATELLITE ANTENNA; M. F. Fleming, PHILCO-FORD CORPORATION, and D. D. Phinney, BALL BROTHERS RESEARCH CORPORATION; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 3

DESPINNING THE ATS SATELLITE; J. P. Dallas; HUGHES AIRCRAFT COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 147

HELIOS MECHANICAL DESPIN DRIVE ASSEMBLY FOR THE HIGH-GAIN ANTENNA REFLECTOR; E. J. W. Muller; DFVLR-BPT; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 80

YO-YO DESPIN MECHANISMS; K. S. Bush; NASA LANGLEY RESEARCH CENTER; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 41

DEWATERING:

SRB DEWATERING SET; R. E. Wickham; JOHN F. KENNEDY SPACE CENTER; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 279

DIAGNOSTIC PROBE:

THE DEVELOPMENT OF A UNIVERSAL DIAGNOSTIC PROBE SYSTEM FOR TOKAMAK FUSION TEST REACTOR; R. Mastronardi, R. Cabral, AMERICAN SCIENCE AND ENGINEERING, INC., and D. Manos, PRINCETON UNIVERSITY PLASMA PHYSICS LABORATORY; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 265

DISCONNECT:

DRIVE MECHANISM FOR THE SHUTTLE/ORBITER EXTERNAL TANK PROPELLANT DISCONNECT; E. Thomas, ROCKWELL INTERNATIONAL CORPORATION, and R. Wilders and J. Ulanovsky, PARKER HANNIFIN CORPORATION; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 1

DISPERSION:

DISPERSION DEVELOPMENT PROGRAM; D. J. Carlson, R. J. Lusardi, and W. H. Phillips; Defense Division, CHRYSLER CORPORATION; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. F. T. Martin, 17-18 October 1974; p. 175

DOCKING/DOCKING MECHANISM/DOCKING SYSTEM:

THE APOLLO 14 DOCKING ANOMALY; R. D. Langley; NASA MANNED SPACECRAFT CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 191

APOLLO DOCKING SYSTEM; K. A. Bloom and G. E. Campbell; NORTH AMERICAN ROCKWELL CORPORATION; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 3

APOLLO-SOYUZ TEST PROJECT DOCKING SYSTEM; W. L. Swan, Jr.; Space Division, ROCKWELL INTERNATIONAL; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 26

DOCKING AND RETRIEVAL MECHANISM; J. R. Tewell and R. A. Spencer; MARTIN-MARIETTA CORPORATION; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 107

DOCKING DEVICES FOR SOYUZ-TYPE SPACECRAFT; V. S. Syromyatnikov; USSR; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 143

DOCKING/DOCKING MECHANISM/DOCKING SYSTEM: (Cont'd)

DOCKING-MECHANISM ATTENUATOR WITH ELECTROMECHANICAL DAMPER; V. S. Syromyatnikov; INSTITUTE FOR MACHINE TECHNOLOGY USSR; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 43

DOCKING SYSTEM OF ANDROGYNOUS AND PERIPHERAL TYPE; V. S. Syromyatnikov; ACADEMY OF SCIENCES, MOSCOW, USSR; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 27

DYNAMIC ANALYSIS OF APOLLO-SALYUT/SOYUZ DOCKING; J. A. Schliesing; NASA MANNED SPACECRAFT CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 47

DYNAMIC TESTING OF DOCKING SYSTEM HARDWARE; W. D. Dorland; NASA MANNED SPACECRAFT CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 203

GEMINI/AGENDA DOCKING MECHANISM; P. H. Meyer; McDONNELL AIRCRAFT CORPORATION; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 81

MODULAR DOCKING MECHANISM FOR IN-ORBIT ASSEMBLY AND SPACECRAFT SERVICING; Gampe, F. and Priesett, K., Dornier System GmbH, West Germany and Bentall, R. H., European Space Research and Development Centre, Noordwijk, The Netherlands; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center. Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 59

NEUTER DOCKING-MECHANISM STUDY; J. C. Jones; NASA MANNED SPACECRAFT CENTER; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 43

DOOR:

SPACE SHUTTLE ORBITER PAYLOAD BAY DOOR MECHANISMS; B. M. McAnally; Space Systems Group, ROCKWELL INTERNATIONAL; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 261

DRIVE/DRIVE ACTUATOR/DRIVE MECHANISM/DRIVE SYSTEM/DRIVE UNIT:

ANTENNA DRIVE SYSTEM FOR THE NIMBUS SATELLITE; G. J. Wedlake and J. D. Loudon; BALL BROTHERS RESEARCH CORPORATION; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 117

DRIVE/DRIVE ACTUATOR/DRIVE MECHANISM/DRIVE SYSTEM/DRIVE UNIT: (Cont'd)

APPENDAGE DEPLOYMENT MECHANISM FOR THE HUBBLE SPACE TELESCOPE PROGRAM; Greenfield, H. T., Lockheed Missiles & Space Co., Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985, p. 329

APPLICATION OF TRACTION DRIVES AS SERVO MECHANISMS; Lowenthal, S. H., Rohn, D. A. and Steinetz, B. M., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 119

DESIGN AND DEVELOPMENT OF A CONSTANT SPEED SOLAR ARRAY DRIVE; Jones, H. M. and Roger, N., Spar Aerospace Ltd., Toronto, Ontario, Canada; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 103

DESIGN AND DEVELOPMENT OF A SOLAR ARRAY DRIVE; T. Rees and J. H. Standing; HAWKER SIDDELEY DYNAMICS, LTD., ENGLAND; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. K. C. Curry, 28-29 April 1977; p. 223

DESIGN ASPECTS OF A SOLAR ARRAY DRIVE FOR SPOT, WITH A HIGH PLATFORM STABILITY OBJECTIVE; J. Cabillie, J. P. Fournier, SEP, FRANCE; P. Anstett, M. Souliac, MATRA EPT FRANCE; and G. Thomin, CNES, FRANCE; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 143

DESIGN OF A 7kW POWER TRANSFER SOLAR ARRAY DRIVE MECHANISM; J. S. Sheppard; BRITISH AEROSPACE DYNAMICS GROUP, ENGLAND; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 341

DEVELOPMENT AND TEST OF A LONG-LIFE, HIGH RELIABILITY SOLAR ARRAY DRIVE ACTUATOR; D. L. Kirkpatrick; GENERAL ELECTRIC COMPANY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 69

DEVELOPMENT OF DRIVE MECHANISM FOR COMMUNICATION SATELLITES; A. C. Schneider and T. D. McLay; Space Division, GENERAL ELECTRIC; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. B. W. Ward, 26-27 April 1979; p. 151

DEVELOPMENT OF THE ELEVATION DRIVE ASSEMBLY FOR ORBITING SOLAR OBSERVATORY I (EYE); W. F. Sharpe, M. C. Olson, HUGHES AIRCRAFT CO., and B. W. Ward, NASA GODDARD SPACE FLIGHT CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 97

DRIVE/DRIVE ACTUATOR/DRIVE MECHANISM/DRIVE SYSTEM/DRIVE UNIT: (Cont'd)

DRAG-COMPENSATED, PRECISION-POWERED HINGE SYSTEM; Jacquemin, G. G. and Rusk, S. J., Lockheed Missiles & Space Co; Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985; p. 75

DRAWER DRIVE FOR SPACE SHUTTLE VACUUM CANISTER; K. E. Werner; Reentry Systems Division, GENERAL ELECTRIC COMPANY; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 279

DRIVE MECHANISM FOR THE SHUTTLE/ORBITER EXTERNAL TANK PROPELLANT DISCONNECT; E. Thomas, ROCKWELL INTERNATIONAL CORPORATION, and R. Wilders and J. Ulanovsky, PARKER HANNIFIN CORPORATION; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 1

DRIVE UNIT FOR THE INSTRUMENT POINTING SYSTEM; R. Birner and M. Roth; MESSERSCHMITT-BOLKOW-BLOHM GmbH, GERMANY; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 263

DUAL DRIVE ACTUATORS; D. T. Packard; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 123

FEATURES OF THE SOLAR ARRAY DRIVE MECHANISM FOR THE SPACE TELESCOPE; Hostenkamp, R. G., Dornier System GmbH, Friedrichshafen, West Germany; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 315

FOCUS DRIVE MECHANISM FOR THE IUE SCIENTIFIC INSTRUMENT; E. J. Divine and T. B. Dennis, Jr.; NASA GODDARD SPACE FLIGHT CENTER; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. G. A. Smith, 28-29 April 1977; p. 213

HIGH FREQUENCY DRIVE MECHANISM FOR AN ACTIVE CONTROLS SYSTEM AIRCRAFT CONTROL SURFACE; H. E. Smith; LOCKHEED GEORGIA COMPANY; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 173

MECHANICAL DRIVE FOR RETRACTABLE TELESCOPIC MASTS; M. E. Humphries; Bristol Division, BRITISH AEROSPACE, ENGLAND; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 205

DRIVE/DRIVE ACTUATOR/DRIVE MECHANISM/DRIVE SYSTEM/DRIVE UNIT: (Cont'd)

SIX MECHANISMS USED ON THE SSM/I RADIOMETER; Ludwig, H. R., Hughes Aircraft Co., El Segundo, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985; p. 347

SOLAR ARRAY DRIVE SYSTEM; F. D. Berkopce, J. C. Sturman, NASA LEWIS RESEARCH CENTER, and R. W. Stanhouse, GENERAL ELECTRIC SPACE SYSTEMS ORGANIZATION; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 185

DSCS III:

IMPROVING SLIPRING PERFORMANCE; Matteo, D. N., General Electric Co., Space Systems Division, Philadelphia, PA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 111

DUAL FAULT TOLERANT:

DESIGN OF A DUAL FAULT TOLERANT SPACE SHUTTLE PAYLOAD DEPLOYMENT ACTUATOR; Teske, D. R., Sundstrand Energy Systems, Rockford, IL; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985, p. 305

DUAL FAULT TOLERANT AEROSPACE ACTUATOR; Siebert, C. J., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 293

ECCENTUATOR:

ECCENTUATOR - A NEW CONCEPT IN ACTUATION; R. G. Musgrove; VOUGHT CORPORATION; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 57

ECHO 6:

ELECTRON ECHO 6 MECHANICAL DEPLOYMENT SYSTEMS; Meyers, S. C., NASA Goddard Space Flight Center, Greenbelt, MD; Steffen, J. E., Malcolm, P. R. and Winckler, J. R., University of Minnesota, Minneapolis, MN; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 263

EJECTION SEAT:

A FLYING EJECTION SEAT; R. H. Hollrock and J. J. Barzda; KAMAN AEROSPACE CORPORATION; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 275

ELECTRICAL NOISE:

ROTATING ELECTRICAL TRANSFER DEVICE; Porter, R. S., Sperry Flight Systems, Phoenix, AZ; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 277

ELECTRICAL TRANSFER:

FEATURES OF THE SOLAR ARRAY DRIVE MECHANISM FOR THE SPACE TELESCOPE; Hostenkamp, R. G., Dornier System GmbH, Friedrichshafen, West Germany; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 315

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TWO-PLANE BALANCE AND SLIP-RING DESIGN; Luna, P. M., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985; p. 379

ELECTROMECHANICAL DEVICES:

A NEW APPROACH TO LONG-LIFE-NONCONTACTING ELECTROMECHANICAL DEVICES; E. J. Devine; NASA GODDARD SPACE FLIGHT CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 109

THE IMPACT OF RARE EARTH COBALT PERMANENT MAGNETS ON ELECTROMECHANICAL DEVICE DESIGN; R. L. Fisher, INLAND MOTOR-SPECIALTY PRODUCTS DIVISION, and P. A. Studer, GODDARD SPACE FLIGHT CENTER; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. T. E. Shoup, 26-27 April 1979; p. 195

EMERGENCY EGRESS:

A UNIQUE CHALLENGE: EMERGENCY EGRESS AND LIFE SUPPORT EQUIPMENT AT KSC; H. M. Wadell, Jr.; ROCKWELL INTERNATIONAL; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 295

EMERGENCY IN-FLIGHT EGRESS OPENING FOR GENERAL AVIATION AIRCRAFT; L. J. Bement; NASA LANGLEY RESEARCH CENTER; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 173

EMERGENCY EGRESS: (Cont'd)

SPACE SHUTTLE SLIDEWIRE EMERGENCY EGRESS SYSTEM; G. B. Jeffcoat and E. S. Stephan; JOHN F. KENNEDY SPACE CENTER; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 47

END EFFECTOR:

THE DESIGN AND DEVELOPMENT OF AN END EFFECTOR FOR THE SHUTTLE REMOTE MANIPULATOR SYSTEM; R. G. Daniell and S. S. Sachdev; SPAR AEROSPACE LTD., CANADA; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 45

ENERGY ABSORBER:

APOLLO COUCH ENERGY ABSORBERS; C. J. Wesselski and R. E. Drexel; NASA MANNED SPACECRAFT CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 157

DEVELOPMENT OF AN ENERGY ABSORBING PASSENGER SEAT FOR A TRANSPORT AIRCRAFT; Eichelberger, C. P. and Alfano-Bou, E., NASA Langley Research Center, Hampton, VA and Fasanella, E. L., Kenton Intl., Hampton, VA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 39

PLY-TEAR WEBBING ENERGY ABSORBER; G. W. H. Stevens; ROYAL AIRCRAFT ESTABLISHMENT, ENGLAND; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 215

SURVEYOR SHOCK ABSORBER; F. B. Sperling; Held at the Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session IV, Chmn. G. G. Herzl, 23-24 May 1968; p. 171

ENERGY COLLECTOR:

A LOW COST HIGH TEMPERATURE SUN TRACKING SOLAR ENERGY COLLECTOR; G. S. Perkins; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 163

ERECTION MECHANISMS:

GAS-POWERED REENTRY BODY ERECTION MECHANISM; R. J. Muraca and K. D. Hedgepeth; NASA LANGLEY RESEARCH CENTER; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 101

ESCAPE SYSTEM:

ORBITER EMERGENCY CREW ESCAPE SYSTEM; W. W. Lofland; LYNDON B. JOHNSON SPACE CENTER; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 33

EXERCISE SYSTEM:

A GRAVITY EXERCISE SYSTEM; W. E. Brandt and A. L. Clark; GYROTRIM CORPORATION; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 311

EXPLOSIVE DEVICE:

A LASER INITIATED EXPLOSIVE DEVICE SYSTEM; L. C. Yang, V. J. Menichelli, and J. E. Earnest; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. D. F. Welch, 18-19 October 1973; p. 25

EXPOSURE FACILITY:

THE LONG-DURATION EXPOSURE FACILITY STRUCTURAL INTERFACE; M. J. Long; NASA LANGLEY RESEARCH CENTER; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 423

EXTENDIBLE STRUCTURE:

AN EXTENDIBLE STRUCTURE FOR SOLAR ELECTRIC POWER IN SPACE; D. E. Lindberg; LOCKHEED MISSILES & SPACE COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 311

FAIRING:

DEVELOPMENT OF STAGING MECHANISMS FOR THE JAPANESE SATELLITE LAUNCHER Mu-3SII; Onoda, J., The Institute of Space and Astronautical Science, Tokyo, Japan; Nineteenth AMS, NASA CP-2371, Held at NASA AMES Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 259

SEPARATION AND STAGING MECHANISMS FOR THE INDIAN SLV-3 LAUNCH VEHICLE; Majeed, M. K. A., Natarajan, K., and Krishnankutty, V. K., Indian Space Research Organization, Vikram Sarabhai Space Centre Trivandrum, India; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 277

F/G FEED MOVEMENT:

PIONEER F/G FEED MOVEMENT MECHANISM; R. M. Acker; TRW SYSTEMS GROUP; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 21

FILTER MECHANISM:

A COMBINATION SHUTTER AND FILTER-CHANGING MECHANISM; A. G. Ford and J. A. Cutts; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 75

FITTINGS:

PAYLOAD RETENTION FITTINGS FOR SPACE SHUTTLE PAYLOAD GROUND HANDLING MECHANISM; Cassisi, V., NASA KSC, FL; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; 5-6 May 1983; p. 375

FLIGHT SIMULATOR:

MAN-VEHICLE SYSTEMS RESEARCH FACILITY, ADVANCED AIRCRAFT FLIGHT SIMULATOR THROTTLE MECHANISM; Kurasaki, S. S., and Vallotton, W. C., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 251

FLOW-CONTROL VALVE:

A FLOW-CONTROL VALVE WITHOUT MOVING PARTS; W. L. Owens, Jr.; LOCKHEED MISSILES & SPACE COMPANY; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 115

FLYWHEEL:

DEVELOPMENT OF A SATELLITE FLYWHEEL FAMILY OPERATING ON "ONE ACTIVE AXIS" MAGNETIC BEARINGS; P. C. Poubeau; AEROSPATIALE, FRANCE; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. G. A. Smith, 28-29 April 1977; p. 185

SHAPE OPTIMIZATION OF DISC-TYPE FLYWHEELS; R. S. Nizza; LOCKHEED MISSILES & SPACE COMPANY; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 38

FOUR-POINT-CONTACT BEARINGS:

PROPERTIES OF THIN-SECTION FOUR-POINT-CONTACT BALL BEARINGS IN SPACE; Rowntree, R. A., European Space Tribology Laboratory, Risley, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 141

FRACTION COLLECTOR:

TWO HUNDRED PASSAGE THREE-WAY VALVE - FRACTION COLLECTOR; Keffer, J. L., McDonnell-Douglas Astronautics Co., St. Louis, MO; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session IV, Chmn. Donald N. Matteo, 5-6 May 1983; p. 199

FRICION AND WEAR MECHANISM:

VIKING GC/MS MECHANISMS DESIGN AND PERFORMANCE; C. P. Chase and O. Weilbach; BECKMAN INSTRUMENTS, INC.; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 208

GALILEO:

GALILEO SPACECRAFT MAGNETOMETER BOOM; Packard, D. T. and Benton, M. D., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 1

GEARING:

APPLICATION OF TRACTION DRIVES AS SERVO MECHANISMS; Lowenthal, S. H., Rohn, D. A. and Steinetz, B. M., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 119

GIMBAL:

DRAG-COMPENSATED, PRECISION-POWERED HINGE SYSTEM; Jacquemin, G. G. and Rusk, S. J., Lockheed Missiles & Space Co; Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985; p. 75

GIMBAL SYSTEM:

DESIGN AND DEVELOPMENT OF A MOUNTING AND JETTISON ASSEMBLY FOR THE SHUTTLE ORBITER ADVANCED GIMBAL SYSTEM; Korzeniowski, E. S., Sperry Flight Systems, Phoenix, AZ; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VI, Chmn. Lloyd W. Briggs; 5-6 May 1983; p. 267

HATCH:

THE APOLLO COMMAND MODULE SIDE ACCESS HATCH SYSTEM; L. J. Walkover, R. J. Hart, and E. W. Zosky; NORTH AMERICAN ROCKWELL CORPORATION; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 157

HEAT PIPES:

HEAT PIPES FOR SPACECRAFT TEMPERATURE CONTROL - THEIR USEFULNESS AND LIMITATIONS; S. Ollendorf and E. Stipandic; NASA GODDARD SPACE FLIGHT CENTER; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 33

HELICAL GRIP:

HELICAL GRIP FOR THE CABLE CARS OF SAN FRANCISCO; R. J. Peyran; NASA AMES RESEARCH CENTER; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. C. Darwin, 26-27 April 1979; p. 83

HELICOPTER:

HELICOPTER VISUAL AID SYSTEM; R. L. Baisley; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 293

HELIOTROPE:

THERMAL HELIOTROPE: A PASSIVE SUN-TRACKER; R. C. Byxbee and D. R. Lott LOCKHEED MISSILES & SPACE COMPANY; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 127

HINGE:

DRAG-COMPENSATED, PRECISION-POWERED HINGE SYSTEM; Jacquemin, G. C. and Rusk, S. J., Lockheed Missiles & Space Co; Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985; p. 75

HINGE MECHANISM:

APPENDAGE DEPLOYMENT MECHANISM FOR THE HUBBLE SPACE TELESCOPE PROGRAM; Greenfield, H. T., Lockheed Missiles & Space Co., Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985, p. 329

HOOP/COLUMN:

HOOP/COLUMN ANTENNA DEPLOYMENT MECHANISM OVERVIEW; Allen, B. B., Harris Corp., Melbourne, FL and Butler, D. H., NASA Langley Research Center, Hampton, VA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 23

ICING:

BAGGIE: A UNIQUE SOLUTION TO AN ORBITING ICING PROBLEM; L. J. Walkover; ROCKWELL INTERNATIONAL CORPORATION; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 1

IMPACT PROBLEMS:

ANALYSIS OF AEROSPACE IMPACT PROBLEMS; D. Hayes, C. Cawood, and T. Kertesz; UNIVERSITY OF SANTA CLARA; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 123

IMPACT - RESISTANT MECHANISMS:

HIGH-IMPACT-RESISTANT MECHANISMS; J. L. Adams; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 181

INJECTOR:

A ZERO "G" FLUID DROP INJECTOR FOR THE DROP DYNAMICS MODULE SPACELAB EXPERIMENT; G. M. Hotz; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. C. Darwin, 26-27 April 1979; p. 111

INSPECTION MECHANISMS:

ZERO-G TESTING OF SATELLITE INSPECTION MECHANISMS; R. N. Lahde, LOCKHEED MISSILES & SPACE COMPANY, and J. W. Lebold, LOCKHEED-CALIFORNIA COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 251

INSTRUMENT POINTING SYSTEM:

ACTUATOR DEVELOPMENT FOR THE INSTRUMENT POINTING SYSTEM (IPS); Sutter K., Dornier System GmbH, Friedrichshafen, West Germany; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. Otto H. Fedor; 2-4 May 1984; p. 15

ION PLATING:

ADVANCES IN SPUTTERED AND ION PLATED SOLID FILM LUBRICATION; Spalvins, T., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985, p. 209

JETTISON:

DEVELOPMENT OF STAGING MECHANISMS FOR THE JAPANESE SATELLITE LAUNCHER Mu-3SII; Onoda, J., The Institute of Space and Astronautical Science, Tokyo, Japan; Nineteenth AMS, NASA CP-2371, Held at NASA AMES Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 259

JETTISON: (Cont'd)

SEPARATION AND STAGING MECHANISMS FOR THE INDIAN SLV-3 LAUNCH VEHICLE; Majeed, M. K. A., Natarajan, K., and Krishnankutty, V. K., Indian Space Research Organization, Vikram Sarabhai Space Centre Trivandrum, India; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 277

LANDER:

A MOBILE PLANETARY LANDER UTILIZING ELASTIC LOOP SUSPENSION; W. Trautwein; LOCKHEED MISSILES & SPACE COMPANY; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 11

LANDING GEAR:

APOLLO LUNAR MODULE LANDING GEAR; W. F. Rogers; NASA MANNED SPACECRAFT CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 123

MODEL STUDIES OF CROSSWIND LANDING-GEAR CONFIGURATIONS FOR STOL AIRCRAFT; S. M. Stubbs and T. A. Byrdsong; NASA LANGLEY RESEARCH CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 145

THE EVOLUTION OF THE VIKING LANDING GEAR; J. C. Pohlen, B. D. Maytum, MARTIN-MARIETTA CORPORATION, and I. W. Ramsey, and U. J. Blanchard, NASA LANGLEY RESEARCH CENTER; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 218

LASER MIRROR MOUNT:

A HIGH RESOLUTION, ADJUSTABLE, LOCKABLE LASER MIRROR MOUNT; C. H. Chadwick; GTE SYLVANIA, INC.; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 116

LATCH:

A BALL TRUNNION CAPTURE LATCH; D. V. Adams and B. Alchorn; LOCKHEED MISSILES & SPACE COMPANY; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 99

DESIGN AND DEVELOPMENT OF A SPACECRAFT APPENDAGE TIE DOWN MECHANISM; Nygren, W. D. and Head, K., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985, p. 167

LATCH: (Cont'd)

DESIGN AND DEVELOPMENT OF TWO-FAILURE TOLERANT MECHANISMS FOR THE SPACEBORNE IMAGING RADAR (SIR-B) ANTENNA; Presas, S. J., Ball Aerospace, High Technology Products, Boulder, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 131

HOOP/COLUMN ANTENNA DEPLOYMENT MECHANISM OVERVIEW; Allen, B. B., Harris Corp., Melbourne, FL and Butler, D. H., NASA Langley Research Center, Hampton, VA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 23

MODULAR DOCKING MECHANISM FOR IN-ORBIT ASSEMBLY AND SPACECRAFT SERVICING; Gampe, F. and Priesett, K., Dornier System GmbH, West Germany and Bentall, R. H., European Space Research and Development Centre, Noordwijk, The Netherlands; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 59

PAYLOAD RETENTION LATCHES FOR THE SHUTTLE ORBITER; R. D. Renken and R. P. Maxwell; BALL AEROSPACE SYSTEMS DIVISION; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 31

PNEUMATIC PRELOADED SCANNING SCIENCE LAUNCH LATCH SYSTEM; J. C. Kievit; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. P. T. Lyman, 27-28 April 1978; p. 181

LATCH DIAPHRAGM:

LATCH DIAPHRAGM RELEASE MECHANISM; G. Gibbons, A. Ventura, and A. Kaeler; LOCKHEED MISSILES & SPACE COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 9

LATCHING HINGE:

ON THE DESIGN OF AN ADJUSTABLE HIGH PRECISION LATCHING HINGE; J. W. Ribble and W. D. Wade; LOCKHEED MISSILES & SPACE COMPANY; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. B. W. Ward, 26-27 April 1979; p. 127

LATCH MECHANISM:

CENTERLINE LATCH TOOL FOR CONTINGENCY ORBITER DOOR CLOSURE; R. C. Trevino; LYNDON B. JOHNSON SPACE CENTER; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 63

LATCH MECHANISM: (Cont'd)

HATCH LATCH MECHANISM FOR SPACELAB SCIENTIFIC AIRLOCK; Ir. G. R. ter Haar; FOKKER-VFW SPACE DIVISION, NETHERLANDS; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session II, Chmn. R. K. Pefley, 27-28 April 1978; p. 89 ✓

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LATCH FITTINGS FOR THE SCIENTIFIC INSTRUMENTS ON THE SPACE TELESCOPE; Dozier, J. D., NASA Marshall Space Flight Center, AL and Kaelber, E., Perkin-Elmer, Danbury, CT; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session V, Chmn. Bill M. McAnally; 5-6 May 1983; p. 253

LATCH MECHANISM FOR THE SPACE TELESCOPE; H. F. Schmidt; LOCKHEED MISSILES & SPACE COMPANY; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 331

MANNED MANEUVERING UNIT LATCHING MECHANISM; C. S. Allton; LYNDON B. JOHNSON SPACE CENTER; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 9

LAUNCHER:

DEVELOPMENT OF STAGING MECHANISMS FOR THE JAPANESE SATELLITE LAUNCHER MU-3SII; Onoda, J., The Institute of Space and Astronautical Science, Tokyo, Japan; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 259

SPHERE LAUNCHER; W. B. Reed; LOCKHEED MISSILES & SPACE COMPANY; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 13

LIFE-SCIENCE:

DESIGN AND DEVELOPMENT OF A RELEASE MECHANISM FOR SPACE SHUTTLE LIFE-SCIENCE EXPERIMENTS; Jones, H. M. and Daniell, R. G., Spar Aerospace Limited, Weston, Ontario Canada; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 1, Chmn. Otto H. Fedor; 2-4 May 1984; p. 1

LIFE-SCIENCE: (Cont'd)

SPACELAB 4 - PRIMATE EXPERIMENT SUPPORT HARDWARE; Fusco, P. R. and Peyran, R. J., NASA AMES Research Center, Moffett Field, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 215

LIFETIME:

MEETING THE CHALLENGE OF A 50,000-HOUR-LIFETIME REQUIREMENT; C. E. Vest and P. A. Studer; NASA GODDARD SPACE FLIGHT CENTER; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 159

LIFT GENERATION:

CIRCULATION CONTROL LIFT GENERATION EXPERIMENT: HARDWARE DEVELOPMENT; Panontin, T. L., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985; p. 363

LINKWORK:

THE DESIGN OF MECHANICAL LINKWORK FOR AEROSPACE; B. Roth; STANFORD UNIVERSITY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 25

LIQUID PUMP:

LIQUID PUMP FOR ASTRONAUT COOLING; M. A. Carson; NASA MANNED SPACECRAFT CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 181

LOADCELL:

LOADCELL SUPPORTS FOR A DYNAMIC FORCE PLACE; C. W. Keller, L. M. Musil, LOCKHEED MISSILES & SPACE COMPANY, and J. L. Hagy, SHRINERS HOSPITAL; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. A. Giovannetti, 17-18 October 1974; p. 265

TWO-PLANE BALANCE AND SLIP-RING DESIGN; Luna, P. M., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985; p. 379

LOCK/LATCH SYSTEMS:

DESIGN OF MECHANISMS TO LOCK/LATCH SYSTEMS UNDER ROTATIONAL OR TRANSLATIONAL MOTION; R. P. Billimoria; PLANNING RESEARCH CORPORATION; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 104 ✓

LOW-TEMPERATURE:

DESIGN AND TEST OF A LOW-TEMPERATURE LINEAR DRIVER/RATE CONTROLLER; Lowry, C. H., Rockwell International, Space Transportation and Systems Group, Downey, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 65

LOW-TEMPERATURE EFFECTS ON MATERIALS FOR AEROSPACE MECHANISMS; W. E. Henry; LOCKHEED MISSILES & SPACE COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 167

L-SAT/OLYMPUS:

EVOLUTION FROM A HINGE ACTUATOR MECHANISM TO AN ANTENNA DEPLOYMENT MECHANISM FOR USE ON THE EUROPEAN LARGE COMMUNICATIONS SATELLITE (L-SAT/OLYMPUS); De'Ath, M. D., British Aerospace Dynamics Group, Stevenage, Herts, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 79

LUBRICANT/LUBRICATION:

AEROSPACE LUBRICATION TECHNOLOGY TRANSFER TO INDUSTRIAL APPLICATIONS; T. J. Loran and B. Perrin; BALL BROTHERS RESEARCH CORPORATION; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. E. E. Sechler, 17-18 October 1974; p. 45

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CONSIDERATIONS ON THE LUBRICATION OF SPACECRAFT MECHANISMS; Briscoe, H. M., European Space Research and Technology Centre, Noordwijk, The Netherlands, and Todd, M. J., European Space Tribology Laboratory, Risley, United Kingdom; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session I, Chmn. Dr. Hans Hintermann; 5-6 May 1983; p. 19

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EVALUATION OF DRY LUBRICANTS AND BEARINGS FOR SPACECRAFT APPLICATIONS; D. L. Kirkpatrick and W. C. Young; GENERAL ELECTRIC COMPANY; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 77

LUBRICATION AS PART OF TOTAL DESIGN; F. J. Clauss; LOCKHEED MISSILES & SPACE COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 121

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MECHANISMS OF UK RADIOMETERS FLOWN ON NIMBUS 5 AND 6 WITH PARTICULAR REFERENCE TO BEARINGS, PIVOTS AND LUBRICATION; H. Hadley; Rutherford and Appleton Laboratories, SCIENCE RESEARCH COUNCIL U.K.; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 101

POSITIVE COMMANDABLE OILER FOR SATELLITE BEARING LUBRICATION; G. E. James; TRW SYSTEMS GROUP; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. A. Giovannetti, 28-29 April 1977; p. 87

PROPERTIES OF THIN-SECTION FOUR-POINT-CONTACT BALL BEARINGS IN SPACE; Rowntree, R. A., European Space Tribology Laboratory, Risley, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 141

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THE BEHAVIOR OF LUBRICATION SYSTEM COMPONENTS IN A VACUUM ENVIRONMENT; D. H. Buckley; NASA LEWIS RESEARCH CENTER; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 111

USE OF PERFLUORETHER LUBRICANTS IN UNPROTECTED SPACE ENVIRONMENTS; Baxter, B. H. and Hall, B. P., British Aerospace, Precision Products Group, Stevenage, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 179

LUNAR CART:

THE LUNAR CART; G. C. Miller; NASA MANNED SPACECRAFT CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 169

MAGNETIC BEARINGS:

DESIGN AND DEVELOPMENT OF A MOMENTUM WHEEL WITH MAGNETIC BEARINGS; L. J. Veillette; NASA GODDARD SPACE FLIGHT CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 131

MAGNETOMETER:

GALILEO SPACECRAFT MAGNETOMETER BOOM; Packard, D. T. and Benton, M. D., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 1

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MECHANICAL ASPECTS OF THE LUNAR SURFACE MAGNETOMETER; W. Schwartz and W. L. Nelms; Space and Reentry Systems Division, PHILCO-FORD CORPORATION; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Chmn. G. G. Herzl, 23-24 May 1968; p. 133

MANIPULATE/MANIPULATOR(S)/MANIPULATIVE:

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PAYLOAD INSTALLATION AND DEPLOYMENT AID FOR SPACE SHUTTLE ORBITER SPACECRAFT REMOTE MANIPULATOR SYSTEM; T. O. Ross; LYNDON B. JOHNSON SPACE CENTER; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 235

TELEPRESENCE WORK SYSTEM CONCEPTS; Jenkins, L. M., NASA Johnson Space Center, Houston, TX; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 225

MANIPULATE/MANIPULATOR(S)/MANIPULATIVE: (Cont'd)

TRIPLE-AXIS COMMON-PIVOT ARM WRIST DEVICE FOR MANIPULATIVE APPLICATIONS; L. Kersten, UNIVERSITY OF NEBRASKA-LINCOLN, and J. D. Johnston; MARSHALL SPACE FLIGHT CENTER; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 111

MAN-VEHICLE SYSTEMS:

MAN-VEHICLE SYSTEMS RESEARCH FACILITY, ADVANCED AIRCRAFT FLIGHT SIMULATOR THROTTLE MECHANISM; Kurasaki, S. S., and Vallotton, W. C., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 251

MAST(S)/MAST CONCEPT:

DESIGN AND DEVELOPMENT OF THE SPACE SHUTTLE TAIL SERVICE MASTS; S. R. Dandage, N. A. Herman, S. E. Godfrey, and R. T. Uda; PRC SYSTEMS SERVICE COMPANY; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. O. H. Fedor, 28-29 April 1977; p. 1

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MECHANICAL SYSTEM:

SPACELAB 4 - PRIMATE EXPERIMENT SUPPORT HARDWARE; Fusco, P. R. and Peyran, R. J., NASA AMES Research Center, Moffett Field, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 215

SUMMARY OF THE ORBITER MECHANICAL SYSTEMS; J. Kiker and K. Hinson; LYNDON B. JOHNSON SPACE CENTER; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 219

MEMORY:

METAL WITH A MEMORY PROVIDES USEFUL TOOL FOR SKYLAB ASTRONAUTS;
G. A. Smith; FAIRCHILD SPACE AND ELECTRONICS COMPANY; Ninth AMS, NASA
TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn.
E. E. Sechler, 17-18 October 1974; p. 81

PASSIVE SUN SEEKER/TRACKER AND A THERMALLY ACTIVATED POWER MODULE;
Siebert, C. J. and Morris, F. A., Martin Marietta Aerospace, Denver, CO;
Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center,
MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984, p. 171

MICROPROCESSOR:

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Pasadena, CA, and Schmitt, D., Lockheed Missiles and Space Company;
Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center,
MD; Session 6, Chmn. Dr. Richard H. Bental; 2-4 May 1984; p. 301

MOLECULAR SINK:

SPACE MOLECULAR SINK SIMULATOR FACILITY; J. B. Stephens; Jet Propulsion
Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Second AMS, TM 33-355,
Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May
1967; p. 1

MOLSINK:

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MOMENTUM WHEEL:

BALL BEARING VERSUS MAGNETIC BEARING REACTION AND MOMENTUM WHEELS AS
MOMENTUM ACTUATORS; W. Auer; TELDIX GmbH, GERMANY; Fourteenth AMS, NASA
CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2
May 1980; p. 79

DESIGN AND DEVELOPMENT OF A MOMENTUM WHEEL WITH MAGNETIC BEARINGS;
L. J. Veillette; NASA GODDARD SPACE FLIGHT CENTER; Eighth AMS, NASA
TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn.
O. H. Fedor, 18-19 October 1973; p. 131

MAGNETIC BEARING MOMENTUM WHEELS WITH MAGNETIC GIMBALLING CAPABILITY FOR
3-AXIS ACTIVE ATTITUDE CONTROL AND ENERGY STORAGE; R. S. Sindlinger;
TELDIX GmbH, GERMANY; Eleventh AMS, NASA CP 2038, Held at NASA Goddard
Space Flight Center, MD; Session I, Chmn. C. R. Meeks, 28-29 April 1977;
p. 45

MOTION COMPENSATOR:

DESIGN AND DEVELOPMENT OF A MOTION COMPENSATOR FOR THE RSRA MAIN ROTOR CONTROL; P. Jeffrey and R. Huber; Sikorsky Aircraft Division, UNITED TECHNOLOGIES CORPORATION; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. H. Klages, 26-27 April 1979; p. 15

MOUNT/MOUNT MECHANISMS:

A VIBRATION ISOLATION MOUNT; R. E. Reed, Jr.; NASA AMES RESEARCH CENTER; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 73

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MUSCLE STRESS APPARATUS:

DEVELOPMENT OF A BEDREST MUSCLE STRESS APPARATUS; R. Booher, NASA JOHNSON SPACE CENTER, and L. Hooper and D. N. Setzer, NELSON & JOHNSON ENGINEERING, INC.; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Jones, Jr., 27-28 April 1978; p. 3

MU-3SII:

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NIMBUS WEATHER SATELLITE:

FLIGHT-PROVEN MECHANISMS ON THE NIMBUS WEATHER SATELLITE; S. Charp and S. Drabek; Spacecraft Department, GENERAL ELECTRIC COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p.1

NITINOL:

FEATURES OF THE SOLAR ARRAY DRIVE MECHANISM FOR THE SPACE TELESCOPE; Hostenkamp, R. G., Dornier System GmbH, Friedrichshafen, West Germany; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 315

NITINOL: (Cont'd)

METAL WITH A MEMORY PROVIDES USEFUL TOOL FOR SKYLAB ASTRONAUTS;
G. A. Smith; FAIRCHILD SPACE AND ELECTRONICS COMPANY; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. E. E. Sechler, 17-18 October 1974; p. 81

PASSIVE SUN SEEKER/TRACKER AND A THERMALLY ACTIVATED POWER MODULE;
Siebert, C. J. and Morris, F. A., Martin Marietta Aerospace, Denver, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984, p. 171

NOISE:

IMPROVING SLIPRING PERFORMANCE; Matteo, D. N., General Electric Co., Space Systems Division, Philadelphia, PA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 111

NONCONTACTING SYSTEMS:

A REVIEW OF THE TECHNOLOGY OF NONCONTACTING SYSTEMS; Philip A. Studer; NASA GODDARD SPACE FLIGHT CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 117

ORIENTATION DEVICE:

RESPONSE CHARACTERISTICS OF A THERMAL-HELIOTROPE SOLAR-ARRAY ORIENTATION DEVICE; F. H. Morse; Department of Mechanical Engineering, UNIVERSITY OF MARYLAND; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 33

PADDLE DRIVES:

CURRENT EUROPEAN DEVELOPMENTS IN SOLAR PADDLE DRIVES; R. H. Bentall; EUROPEAN SPACE RESEARCH AND TECHNOLOGY CENTRE; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 49

PARACHUTE:

APOLLO 15 MAIN-PARACHUTE FAILURE; D. D. Arabian and J. E. Mechelay; NASA MANNED SPACECRAFT CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 137

PARACHUTE SYSTEM:

A SPIN-RECOVERY PARACHUTE SYSTEM FOR LIGHT GENERAL-AVIATION AIRPLANES; C. F. Bradshaw; NASA LANGLEY RESEARCH CENTER; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 195

TEXTILE MECHANICAL ELEMENTS IN AEROSPACE VEHICLE PARACHUTE SYSTEMS; M. J. Lindgren and K. E. French; LOCKHEED MISSILES & SPACE COMPANY; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 27

PARASOL:

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PARKING GARAGE:

AUTOMATED PARKING GARAGE SYSTEM MODEL; C. R. Collins, Jr.; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 387

PAYLOAD:

DEVELOPMENT OF PAYLOAD SUBSYSTEM-PRIMATE MISSION-BIOSATELLITE PROGRAM; J. F. Hall, Jr.; Reentry and Environmental Systems Division, GENERAL ELECTRIC COMPANY; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 177

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PERFLUORETHER LUBRICANT:

USE OF PERFLUORETHER LUBRICANTS IN UNPROTECTED SPACE ENVIRONMENTS; Baxter, B. H. and Hall, B. P., British Aerospace, Precision Products Group, Stevenage, England; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 179

PHOTOPOLARIMETER:

THE MECHANICAL DESIGN OF AN IMAGING PHOTOPOLARIMETER FOR THE JUPITER MISSIONS (PIONEER 10 AND 11); J. C. Kodak; SANTA BARBARA RESEARCH CENTER; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 199

PHOTO-SUBSYSTEM MECHANISMS:

LUNAR ORBITER PHOTO-SUBSYSTEM MECHANISMS; G. Bradley; THE BOEING COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 33

PIN MECHANISM:

FLY-AWAY RESTRAINT PIN MECHANISM FOR THE ARMY'S PATRIOT MISSILE SYSTEM; F. W. Knight; MARTIN-MARIETTA AEROSPACE; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. C. R. Meeks, 28-29 April 1977; p. 35

PIN PULLER:

PIN PULLER IMPACT SHOCK ATTENUATION; G. F. Auclair, B. S. Leonard, R. E. Robbins, and W. L. Proffitt; LOCKHEED MISSILES & SPACE COMPANY; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 71

PIVOT(S):

FLEXURAL PIVOTS FOR SPACE APPLICATIONS; F. A. Seelig; Fluid Power Division; THE BENDIX CORPORATION; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 9

PLATFORM STRUCTURE:

MARINER IV SCIENCE PLATFORM STRUCTURE AND ACTUATOR DESIGN, DEVELOPMENT, AND PERFORMANCE; G. Coyle and E. Floyd; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 145

POINTING MECHANISM:

ANTENNA TRACKING MECHANISM FOR GEOSTATIONARY SATELLITES; Francis, C. M., Ford Aerospace and Communications Corporation, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 203

AN ANTENNA POINTING MECHANISM FOR LARGE REFLECTOR ANTENNAS; H. Heimerdinger; DORNIER SYSTEM GmbH, GERMANY; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 253

DESIGN AND DEVELOPMENT OF A SOLAR TRACKING UNIT; Jones, I. W. and Miller, J. B., NASA Langley Research Center, Hampton, VA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 187

POINTING MECHANISM: (Cont'd)

DEVELOPMENT OF A HIGH STABILITY POINTING MECHANISM FOR WIDE APPLICATION;
A. J. D. Brunnen, BRITISH AEROSPACE DYNAMICS GROUP, ENGLAND, and
R. H. Bentall, EUROPEAN SPACE AGENCY, ESTEC, NETHERLANDS; Sixteenth AMS,
NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn.
C. W. Coale, 13-14 May 1982; p. 159

SYSTEME D'ORIENTATION FINE D'ANTENNE (AN ANTENNA FINE POINTING MECHANISM);
B. Hubert and P. Brunet; SOCIETE NATIONALE INDUSTRIELLE AFROSPATIAL,
FRANCE; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space
Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 235

POINTING SYSTEM:

DRAG-COMPENSATED, PRECISION-POWERED HINGE SYSTEM; Jacquemin, G. G. and
Rusk, S. J., Lockheed Missiles & Space Co; Sunnyvale, CA; Nineteenth AMS,
NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA;
Session II, Chmn. Lester D. Nichols; 1-3 May 1985; p. 75

A TWO AXIS POINTING SYSTEM FOR AN ORBITING ASTRONOMICAL INSTRUMENT;
R. F. Turner and J. G. Firth; SRC Appleton Laboratory Astrophysics Research
Division, CULHAM LABORATORY; Thirteenth AMS, NASA CP-2081, Held at Lyndon
B. Johnson Space Center, TX; Session I, Chmn. H. Klages, 26-27 April 1979;
p. 27

POLARIMETER:

A POLARIMETER FOR THE HIGH RESOLUTION ULTRAVIOLET SPECTROMETER/POLARIMETER;
J. A. Calvert; GEORGE C. MARSHALL SPACE FLIGHT CENTER; Fourteenth AMS,
NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale,
1-2 May 1980; p. 303

POLARIZER:

POLARIZER MECHANISM FOR THE SPACE TELESCOPE FAINT OBJECT; Thulson, M. D.,
Martin-Marietta Aerospace, Denver, CO; Seventeenth AMS, NASA CP-2273, Held
at Jet Propulsion Laboratory, CA; Session II, Chmn. Allen J. Louviere; 5-6
May 1983; p. 97

POSITION:

DESIGN OF A PRECISION ETALON POSITION CONTROL SYSTEM FOR A CRYOGENIC
SPECTROMETER; Auburn, J. N., Lorell, K. R., Zacharie, D. F. and Thatcher,
J. B., Lockheed Palo Alto Research Laboratories, Palo Alto, CA; Eighteenth
AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session
V, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 243

POSITION: (Cont'd)

RELIABILITY BREAKTHROUGH: AN ANTENNA DEPLOYMENT/POSITIONING MECHANISM WITH ELECTRICAL AND MECHANICAL REDUNDANCY; M. C. Olson, L. W. Briggs, and J. B. Pentecost; HUGHES AIRCRAFT COMPANY; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session II, Chmn. B. W. Ward, 26-27 April 1979; p. 137

SOLAR DRUM POSITIONER MECHANISMS; L. W. Briggs; HUGHES AIRCRAFT COMPANY; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 235

THE DESIGN AND APPLICATION OF AN ANTENNA POSITIONER MECHANISM FOR INTELSAT-V SERIES COMMUNICATION SATELLITE; B. Szeto; FORD AEROSPACE AND COMMUNICATION CORPORATION; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 311

THE INTELSAT IV ANTENNA POSITIONER; F. A. Glassow; HUGHES AIRCRAFT COMPANY; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 109

POWER HINGE:

A FULLY REDUNDANT POWER HINGE FOR LANDSAT-D APPENDAGES; F. E. Mamrol and D. N. Matteo; Space Division, GENERAL ELECTRIC COMPANY; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 341

POWER TRANSFER:

ROTARY RELAY FOR SPACE POWER TRANSFER; H. T. Haynie; THE BOEING COMPANY Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session I, Co-chmn. F. T. Martin and V. Chobotov, 15-16 June 1970; p. 25

ROTATING ELECTRICAL TRANSFER DEVICE; Porter, R. S., Sperry Flight Systems, Phoenix, AZ; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 277

PRIMATE MISSION:

DEVELOPMENT OF PAYLOAD SUBSYSTEM-PRIMATE MISSION-BIOSATELLITE PROGRAM; J. F. Hall, Jr.; Reentry and Environmental Systems Division, GENERAL ELECTRIC COMPANY; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 177

PROBLEMS:

MECHANISM PROBLEMS; J. K. Riedel; LOCKHEED MISSILES & SPACE CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 3

ROCKET ENGINE BIPROPELLANT VALVE PROBLEMS AND CURRENT EFFORTS; J. Fries; NASA JOHNSON SPACE CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 213

THREE SIMPLE MECHANISMS TO SOLVE UNIQUE AEROSPACE PROBLEMS; E. Groskopfs; SPAR AEROSPACE PRODUCTS, LTD.; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session IV, Chmn. F. Forbes, 22-23 May 1969; p. 121

PROPELLERS:

TWO-PLANE BALANCE AND SLIP-RING DESIGN; Luna, P. M., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985; p. 379

PROSTHETIC ATTACHMENT:

DEVELOPMENT OF A BONE-FIXATION PROSTHETIC ATTACHMENT; L. J. Owens; NASA JOHN F. KENNEDY SPACE CENTER; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. A. Giovannetti, 17-18 October 1974; p. 281

PROTECTION ASSEMBLY:

DEVELOPMENT OF A WINDOW PROTECTION ASSEMBLY FOR A SHUTTLE EXPERIMENT; O. H. Bradley, Jr.; NASA LANGLEY RESEARCH CENTER; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 303

PUMP:

THERMOMECHANICAL PISTON PUMP DEVELOPMENT; E. E. Sabelman; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session II, Co-chmn. R. F. Bohling and A. D. Galbraith, 15-16 June 1970; p. 65

PYROMECHANICAL:

EXPLOSIVELY ACTUATED (PYROMECHANICAL) DEVICES FOR SPACECRAFT APPLICATIONS; A. G. Benedict; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 285

RADAR DEVICE:

RADAR AUGMENTATION DEVICE; J. K. Riedel; LOCKHEED MISSILES & SPACE COMPANY; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 65

RADIATION SOURCE HOLDER:

A SPACE QUALIFIED RADIATION SOURCE HOLDER; L. J. Polaski and H. R. Zabower; NASA AMES RESEARCH CENTER; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 9

RADIOMETER:

DESIGN OF AN ATMOSPHERIC SOUNDING RADIOMETER FOR THE GOES METEOROLOGICAL SATELLITE SYSTEM; R. G. Jensen; SANTA BARBARA RESEARCH CENTER; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 289

MECHANISMS OF UK RADIOMETERS FLOWN ON NIMBUS 5 AND 6 WITH PARTICULAR REFERENCE TO BEARINGS, PIVOTS AND LUBRICATION; H. Hadley; Rutherford and Appleton Laboratories, SCIENCE RESEARCH COUNCIL U.K.; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 101

SCANNING AND FOCUSING MECHANISMS OF METOSAT RADIOMETER; J. Jouan; SOCIETE MATRA, FRANCE; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session I, Chmn. O. H. Fedor, 28-29 April 1977; p. 13

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REACTION WHEELS:

MAGNETICALLY SUSPENDED REACTION WHEELS; A. V. Sabnis, G. L. Stocking, and J. B. Dendy; SPERRY FLIGHT SYSTEMS; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. K. C. Curry, 17-18 October 1974; p. 211

RECIPROCATING ENGINE:

HYDRAZINE MONOPROPELLANT RECIPROCATING ENGINE DEVELOPMENT; J. W. Akkerman; LYNDON B. JOHNSON SPACE CENTER; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. H. Klages, 26-27 April 1979; p. 1

RECORDER:

THE GODDARD HELICAL TAPE RECORDER; F. T. Martin and D. K. McCarthy; NASA GODDARD SPACE FLIGHT CENTER; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 89

REFLECTANCE-DEGRADATION:

MECHANISM FOR SPACECRAFT REFLECTANCE-DEGRADATION EXPERIMENT; E. Cornish, R. K. Kissinger, and G. P. McCabe; LOCKHEED MISSILES & SPACE COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 51

REFRIGERATION:

THE PERFORMANCE OF COMPONENTS IN THE SKYLAB REFRIGERATION SYSTEM; C. E. Danlher, Jr.; McDONNELL-DOUGLAS ASTRONAUTICS COMPANY; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. A. C. Bond, 17-18 October 1974; p. 115

REFURBISHMENT:

REFURBISHMENT OF THE CRYOGENIC COOLERS FOR THE SKYLAB EARTH RESOURCES EXPERIMENT PACKAGE; J. C. Smithson and N. C. Luska; NASA LYNDON B. JOHNSON SPACE CENTER; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session II, Chmn. A. C. Bond, 17-18 October 1974; p. 133

REGULATOR:

CENTRIFUGAL REGULATOR FOR CONTROL OF DEPLOYMENT RATES OF DEPLOYABLE ELEMENTS; J. C. Vermalle; AEROSPATIALE; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 93

RELEASE DEVICE:

DEVELOPMENT OF STAGING MECHANISMS FOR THE JAPANESE SATELLITE LAUNCHER Mu-3SII; Onoda, J., The Institute of Space and Astronautical Science, Tokyo, Japan; Nineteenth AMS, NASA CP-2371, Held at NASA AMES Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 259

RELEASE MECHANISM:

A RELEASE MECHANISM WITH MECHANICAL REDUNDANCY; J. J. Paradise; LOCKHEED MISSILES & SPACE COMPANY; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 121

COLLET RELEASE MECHANISM; D. O. Ramos; GENERAL ELECTRIC COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 85

RELEASE MECHANISM: (Cont'd)

HOLDDOWN ARM RELEASE MECHANISM USED ON SATURN VEHICLES; J. D. Phillips and B. A. Tolson; NASA JOHN F. KENNEDY SPACE CENTER; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 335

DESIGN AND DEVELOPMENT OF A RELEASE MECHANISM FOR SPACE SHUTTLE LIFE-SCIENCE EXPERIMENTS; Jones, H. M. and Daniell, R. G., Spar Aerospace Limited, Weston, Ontario Canada; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 1, Chmn. Otto H. Fedor; 2-4 May 1984; p. 1

MULTI-POINT RELEASE MECHANISM; E. Groskopf; SPAR AEROSPACE PRODUCTS, LTD.; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 329

RELEASE-ENGAGE MECHANISM FOR USE ON THE ORBITER, EVOLUTION OF; Calvert, J., NASA Marshall Space Flight Center, AL; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VIII, Chmn. Bowden W. Ward, Jr.; 5-6 May 1983; p. 357

TESTS OF A PROTECTIVE SHELL PASSIVE RELEASE MECHANISM FOR HYPERSONIC WIND-TUNNEL MODELS; R. L. Puster and J. E. Dunn; NASA LANGLEY RESEARCH CENTER; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. T. E. Shoup, 26-27 April 1979; p. 167

THE DESIGN AND TESTING OF A MEMORY METAL ACTUATED BOOM RELEASE MECHANISM; D. G. Powley, BRITISH AIRCRAFT CORPORATION, LTD., and G. B. Brook, FULMER RESEARCH INSTITUTE, LTD.; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session II, Chmn. R. K. Pefley, 27-28 April 1978; p. 119

RELEASE NUT:

DESIGN EVOLUTION OF A LOW SHOCK RELEASE NUT; D. H. Oth, Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY, and W. Gordon, HI-SHEAR CORPORATION; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 175

RELEASE SYSTEM:

ROCKET NOZZLE AUTOMATIC RELEASE SYSTEM; J. B. Kimball; LOCKHEED MISSILES & SPACE COMPANY; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 51

RELIABILITY: (Cont'd)

IMPORTANCE OF THERMAL-VACUUM TESTING IN ACHIEVING HIGH RELIABILITY OF SPACECRAFT MECHANISMS; Parker, K., European Space Tribology Laboratory, Risley, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 93

RESTRAINING:

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RETAINERS:

POLYURETHANE RETAINERS FOR BALL BEARINGS; R. I. Christy; HUGHES AIRCRAFT COMPANY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 317

RETRO-REFLECTOR ARRAY:

THE APOLLO 11 LASER RANGING RETRO-REFLECTOR ARRAY; J. E. McCullough; ARTHUR D. LITTLE, INC.; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session IV, Co-chmn. F. R. E. Crossley and S. Weissenberger, 15-16 June 1970; p. 171

ROBOTICS:

DUAL ARM MASTER CONTROLLER DEVELOPMENT; Kuban, D. P., Oak Ridge National Laboratory, Oak Ridge, TN and Perkins, G. S., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 235

TELEPRESENCE WORK SYSTEM CONCEPTS; Jenkins, L. M., NASA Johnson Space Center, Houston, TX; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 225

ROLAMITE:

INTRODUCTION TO ROLAMITE; J. P. Ford; SANDIA CORPORATION; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 153

ROLL BALANCE:

MODEL SUPPORT ROLL BALANCE AND ROLL COUPLING; R. E. Sharpes and W. J. Carroll; NASA LANGLEY RESEARCH CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 155

ROLL COUPLING:

MODEL SUPPORT ROLL BALANCE AND ROLL COUPLING; R. E. Sharpes and W. J. Carroll; NASA LANGLEY RESEARCH CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 155

ROLL RING:

ROTATING ELECTRICAL TRANSFER DEVICE; Porter, R. S., Sperry Flight Systems, Phoenix, AZ; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 277

ROLLER DRIVE:

APPLICATION OF TRACTION DRIVES AS SERVO MECHANISMS; Lowenthal, S. H., Rohn, D. A. and Steinetz, B. M., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 119

ROTARY:

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ROTATING SPEED MECHANISM:

DESIGN PRINCIPLES OF A ROTATING MEDIUM SPEED MECHANISM; R. G. Hostenkamp, E. Achtermann, DORNIER SYSTEM, and R. H. Bentall, EUROPEAN SPACE TECHNOLOGY CENTRE; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 52

ROTATION:

DYNAMICS OF HUMAN SELF-ROTATION; T. R. Kane; STANFORD UNIVERSITY; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 27

RUDDER/SPEEDBRAKE:

SPACE SHUTTLE ORBITER RUDDER/SPEEDBRAKE SYSTEM; D. Woolhouse, ROCKWELL INTERNATIONAL CORPORATION; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 19

SAMPLER:

THE VIKING SURFACE SAMPLER; R. B. Seger, MARTIN-MARIETTA AEROSPACE CORPORATION, and V. P. Gillespie, NASA LANGLEY RESEARCH CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 245

SAN MARCO D/L:

PASSIVELY CONTROLLED APPENDAGE DEPLOYMENT SYSTEM FOR THE SAN MARCO D/L SPACECRAFT; Lang, W. E., Frisch, H. P., and Schwartz, D. A., NASA Goddard Space Flight Center, Greenbelt, MD; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 29

SATELLITE CONTROL:

TETHERED SATELLITE CONTROL MECHANISM; Kyrias, G. M., Martin-Marietta Aerospace; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session I, Chmn. Dr. Hans Hintermann; 5-6 May 1983; p. 1

SCANNER/SCANNING:

DESIGN AND DEVELOPMENT OF AN OPTICAL SCANNING MECHANISM (OSMA) WITH MINIMUM MOMENTUM TRANSFER; L. B. F. Sainz, E. Herrera, J. M. Bajo, and H. J. Mallard; AEROSPACIAL, SENER, SPAIN; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 219

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A SCANNING MIRROR SYSTEM FOR THE APOLLO TELESCOPE MOUNT ULTRAVIOLET SPECTROHELIO METER; C. O. Highman; BALL BROTHERS RESEARCH CORPORATION; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 113

SCANNER/SCANNING: (Cont'd)

MECHANICAL COMPONENT SCREENING FOR SCANNER; J. L. Olson and W. J. Quinn; HUGHES AIRCRAFT COMPANY; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session I, Co-chmn. C. C. Johnson and K. S. Bush, 7-8 September 1972; p. 59

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MECHANISMS OF THE SAMS EXPERIMENT FLOWN ON NIMBUS 7 WITH PARTICULAR REFERENCE TO THE 2 AXIS SCANNING MIRROR; H. Hadley; Rutherford and Appleton Laboratories, SCIENCE RESEARCH COUNCIL U.K.; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 323

SCANNING MIRROR FOR INFRARED SENSORS; R. H. Anderson and S. B. Bernstein; LOCKHEED MISSILES & SPACE COMPANY; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 251

TORQUE-WHILE-TURNAROUND SCAN MIRROR ASSEMBLY; C. J. Starkus; HUGHES AIRCRAFT COMPANY; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. Dr. M. O. M. Osman, 28-29 April 1977; p. 117

SEAL:

SPACE SHUTTLE ORBITER AFT HEAT SHIELD SEAL; L. J. Walkover; Space Systems Group, ROCKWELL INTERNATIONAL; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. S. Dubowsky, 26-27 April 1979; p. 251

SEAT:

DEVELOPMENT OF AN ENERGY ABSORBING PASSENGER SEAT FOR A TRANSPORT AIRCRAFT; Eichelberger, C. P. and Alfano-Bou, E., NASA Langley Research Center, Hampton, VA and Fasanella, E. L., Kenton Intl., Hampton, VA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 39

SECURING MECHANISM:

SECURING MECHANISM FOR THE DEPLOYABLE COLUMN OF THE HOOP/COLUMN ANTENNA; Ahl, E. L. Jr., NASA Langley Research Center, Hampton, VA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session III, Chmn. Dr. A. H. Hausrath; 5-6 May 1983; p. 157

SELF-DESTRUCT:

SELF-DESTRUCT CHARGE ORDNANCE COMPONENT OF THE AGENDA D VEHICLE
SELF-DESTRUCT SYSTEM; A. H. Smith; LOCKHEED MISSILES & SPACE COMPANY;
Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G.
G. Herzl, 4-5 May 1967; p. 171

SEQUENCING SYSTEM:

SPACECRAFT LAUNCH VEHICLE EVENT SEQUENCING SYSTEM; V. R. Noel; McDONNELL-
DOUGLAS ASTRONAUTICS COMPANY; Sixteenth AMS, NASA CP-2221, Held at NASA
John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 73

SENSOR:

EVALUATION OF SCANNING EARTH SENSOR MECHANISM ON ENGINEERING TEST
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5-6 May 1983; p. 143

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Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 91

CAGING MECHANISM FOR A DRAG-FREE SATELLITE POSITION SENSOR; R. Hacker,
J. Mathiesen, and D. B. DeBra; STANFORD UNIVERSITY; Tenth AMS, NASA
TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host)
P. Bomke, 22-23 April 1976; p. 125

SEPARATION:

DEVELOPMENT OF STAGING MECHANISMS FOR THE JAPANESE SATELLITE LAUNCHER
Mu-3SII; Onoda, J., The Institute of Space and Astronautical Science,
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Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985;
p. 259

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SEPARATION APPARATUS:

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SPACECRAFT SEPARATION SYSTEMS MECHANISMS: CHARACTERISTICS AND PERFORMANCE DURING HIGH-ALTITUDE FLIGHT TEST FROM NASA WALLOPS STATION, VA; J. D. Pride, Jr.; NASA LANGLEY RESEARCH CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 165

COMPRESSION-SPRING SEPARATION MECHANISMS; T. G. Harrington; LOCKHEED MISSILES & SPACE COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 137

DEVELOPMENT OF AN ULTRA-LOW-SHOCK SEPARATION NUT; W. Woebkenberg, D. N. Matteo, GENERAL ELECTRIC COMPANY, and V. D. Williams, HI-SHEAR CORPORATION; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 87

DEVELOPMENT OF LOW-SHOCK-PYROTECHNIC SEPARATION NUTS; L. J. Bement, NASA LANGLEY RESEARCH CENTER, and V. H. Neubert, PENNSYLVANIA STATE UNIVERSITY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session II, Chmn. O. H. Fedor, 18-19 October 1973; p. 179

SPACE SHUTTLE ORBITER SEPARATION BOLTS; R. S. Ritchie; Space Ordnance Systems Division, TRANSTECHNOLOGY CORPORATION; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. P. T. Lyman, 27-28 April 1978; p. 171

SPACE SHUTTLE SEPARATION MECHANISMS; W. F. Rogers, NASA JOHNSON SPACE CENTER; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session III, Chmn. P. T. Lyman, 27-28 April 1978; p. 157

SEPARATION APPARATUS: (Cont'd)

TRIDENT I THIRD STAGE MOTOR SEPARATION SYSTEM; B. H. Welch, B. J. Richter, and P. Sue; LOCKHEED MISSILES & SPACE COMPANY; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session II, Chmn. A. Giovannetti, 28-29 April 1977; p. 97

SERVOACTUATOR:

DESIGN AND DEVELOPMENT OF THE QUAD REDUNDANT SERVOACTUATOR FOR THE SPACE SHUTTLE SOLID ROCKET BOOSTER THRUST VECTOR CONTROL; J. M. Lominick; MARSHALL SPACE FLIGHT CENTER; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 125

SERVOMANIPULATOR:

DUAL ARM MASTER CONTROLLER DEVELOPMENT; Kuban, D. P., Oak Ridge National Laboratory, Oak Ridge, TN and Perkins, G. S., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 235

SERVO MECHANISMS:

APPLICATION OF TRACTION DRIVES AS SERVO MECHANISMS; Lowenthal, S. H., Rohn, D. A. and Steinetz, B. M., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985; p. 119

SHAKER:

DESIGN OF A PIEZOELECTRIC SHAKER FOR CENTRIFUGE TESTING; J. G. Canclini, NASA AMES RESEARCH CENTER, and J. M. Henderson, UNIVERSITY OF CALIFORNIA DAVIS; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. D. G. Wong, 26-27 April 1979; p. 59

SHOCK ISOLATION:

A PYROTECHNIC SHOCK ISOLATION MECHANISM; A. L. Ikola; LOCKHEED MISSILES & SPACE COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 189

SHUTTER:

A COMBINATION SHUTTER AND FILTER-CHANGING MECHANISM; A. G. Ford and J. A. Cutts; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 75

SHUTTER: (Cont'd)

DOUBLE-ACTING, ROTARY-SOLENOID-ACTUATED SHUTTER; A. G. Ford; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 131

SHUTTER MECHANISM FOR SPACECRAFT SPECTROPHOTOMETER; A. Weilbach; BECKMAN INSTRUMENTS, INC.; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 95

SHUTTLE/CENTAUR:

INHERENT PROBLEMS IN DESIGNING TWO-FAILURE TOLERANT ELECTROMECHANICAL ACTUATORS; Hornyak, S., General Dynamics Convair Division, San Diego, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 155

SILICATE FRICTION:

METAL-SILICATE FRICTION IN ULTRAHIGH VACUUM; E. I. Ofodile, E. I. DU PONT DE NEMOURS AND COMPANY, and J. Frisch, UNIVERSITY OF CALIFORNIA AT BERKELEY; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 149

SIMULATOR:

MECHANICAL DESIGN OF NASA AMES RESEARCH CENTER VERTICAL MOTION SIMULATOR; D. F. Engelbert, A. P. Bakke, M. K. Chargin, and W. C. Vallotton; NASA AMES RESEARCH CENTER; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 155

SIR-B:

DESIGN AND DEVELOPMENT OF TWO-FAILURE TOLERANT MECHANISMS FOR THE SPACEBORNE IMAGING RADAR (SIR-B) ANTENNA; Presas, S. J., Ball Aerospace, High Technology Products, Boulder, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 131

SLIPRINGS:

ACCELERATED VACUUM TESTING OF LONG LIFE BALL BEARINGS AND SLIPRINGS; C. R. Meeks, R. I. Christy, and A. C. Cunningham; HUGHES AIRCRAFT COMPANY; Fifth AMS, NASA SP-282, Held at NASA Goddard Space Flight Center, MD; Session III, Co-chmn. B. A. Kulp and K. S. Bush, 15-16 June 1970; p. 127

SLIPRINGS: (Cont'd)

IMPROVING SLIPRING PERFORMANCE; Matteo, D. N., General Electric Co., Space Systems Division, Philadelphia, PA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 111

LUBRICATION OF DC MOTORS, SLIP RINGS, BEARINGS, AND GEARS FOR LONG-LIFE SPACE APPLICATIONS; B. J. Perrin and R. W. Mayer; BALL BROTHERS RESEARCH CORPORATION; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 65

TWO-PLANE BALANCE AND SLIP-RING DESIGN; Luna, P. M., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2372, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985; p. 379

SLV-3:

SEPARATION AND STAGING MECHANISMS FOR THE INDIAN SLV-3 LAUNCH VEHICLE; Majeed, M. K. A., Natarajan, K., and Krishnankutty, V. K., Indian Space Research Organization, Vikram Sarabhai Space Centre Trivandrum, India; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 277

SMART MECHANISMS:

TELEPRESENCE WORK SYSTEM CONCEPTS; Jenkins, L. M., NASA Johnson Space Center, Houston, TX; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 225

SMART MOTOR:

SMART MOTOR TECHNOLOGY; Packard D., Jet Propulsion Laboratory, Pasadena, CA, and Schmitt, D., Lockheed Missiles and Space Company; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 6, Chmn. Dr. Richard H. Bental; 2-4 May 1984; p. 301

SNAP MECHANISM:

THE DEVELOPMENT PHILOSOPHY FOR SNAP MECHANISMS; O. P. Steel, III; ATOMICS INTERNATIONAL; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 45

SOIL SAMPLER:

SOIL SAMPLER DEVELOPMENT FOR UNMANNED PROBES; W. H. Bachle; Space and Reentry Systems Division, PHILCO-FORD CORPORATION; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session I, Chmn. R. E. Fischell, 22-23 May 1969; p. 3

SOLAR ARRAY/PANEL:

A 928-M² (10,000 FT²) SOLAR ARRAY; D. E. Lindberg; LOCKHEED MISSILES & SPACE COMPANY; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 287

DEPLOYABLE SOLAR ARRAY; T. Berry; FAIRCHILD HILLER CORPORATION; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 51

DEPLOYMENT/RETRACTION GROUND TESTING OF A LARGE FLEXIBLE SOLAR ARRAY; D. T. Chung; LOCKHEED MISSILES & SPACE COMPANY; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 249

DESIGN AND DEVELOPMENT OF A CONSTANT SPEED SOLAR ARRAY DRIVE; Jones, H. M, and Roger, N., Spar Aerospace Ltd., Toronto, Ontario, Canada; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985; p. 103

DEVELOPMENT AND TEST OF A LONG-LIFE, HIGH RELIABILITY SOLAR ARRAY DRIVE ACTUATOR; D. L. Kirkpatrick; GENERAL ELECTRIC COMPANY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. R. J. Herzberg, 18-19 October 1973; p. 69

FEATURES OF THE SOLAR ARRAY DRIVE MECHANISM FOR THE SPACE TELESCOPE; Hostenkamp, R. G., Dornier System GmbH, Friedrichshafen, West Germany; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 315

FLEXIBLE SOLAR-ARRAY MECHANISM; M. C. Olson; HUGHES AIRCRAFT COMPANY; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session IV, Co-chmn. B. Beam and H. T. Haynie, 7-8 September 1972; p. 233

PASSIVE SOLAR PANEL ORIENTATION SERVOMECHANISM; R. L. Samuels; TRW SYSTEMS GROUP; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session III, Chmn. G. G. Herzl, 23-24 May 1968; p. 125

ZERO GRAVITY TESTING OF FLEXIBLE SOLAR ARRAYS; D. T. Chung, LOCKHEED MISSILES & SPACE COMPANY, and L. E. Young, MARSHALL SPACE FLIGHT CENTER; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 115

SOLID FILM LUBRICATION:

ADVANCES IN SPUTTERED AND ION PLATED SOLID FILM LUBRICATION; Spalvins, T., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985, p. 209

SOUNDING ROCKET: (Cont'd)

ELECTRON ECHO 6 MECHANICAL DEPLOYMENT SYSTEMS; Meyers, S. C., NASA Goddard Space Flight Center, Greenbelt, MD; Steffen, J. E., Malcolm, P. R. and Winckler, J. R., University of Minnesota, Minneapolis, MN; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984 p. 263

SPACELAB:

DESIGN FEATURES OF SELECTED MECHANISMS DEVELOPED FOR USE IN SPACELAB; Ing. W. Inden; ERNO RAUMFAHRTECHNIK GmbH, WEST GERMANY; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session II, Chmn. R. K. Pefley, 27-28 April 1978; p. 101

SPACELAB 1, 4:

DESIGN AND DEVELOPMENT OF A RELEASE MECHANISM FOR SPACE SHUTTLE LIFE-SCIENCE EXPERIMENTS; Jones, H. M. and Daniell, R. G., Spar Aerospace Limited, Weston, Ontario Canada; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 1, Chmn. Otto H. Fedor; 2-4 May 1984; p. 1

SPACELAB 4 - PRIMATE EXPERIMENT SUPPORT HARDWARE; Fusco, P. R. and Peyran, R. J., NASA Ames Research Center, Moffett Field, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr., 2-4 May 1984; p. 215

SPACE MECHANISMS:

DESIGN AND DEVELOPMENT OF A SPACECRAFT APPENDAGE TIE DOWN MECHANISM; Nygren, W. D. and Head, K., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985; p. 167

IMPORTANCE OF THERMAL-VACUUM TESTING IN ACHIEVING HIGH RELIABILITY OF SPACECRAFT MECHANISMS; Parker, K., European Space Tribology Laboratory, Risley, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 93

SIMPLIFIED SPACE MECHANISMS USING SUBLIMING SOLIDS; H. M. Kindsvater; LOCKHEED MISSILES & SPACE COMPANY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 239

SPACE STRUCTURES:

AUTOMATIC IN-ORBIT ASSEMBLY OF LARGE SPACE STRUCTURES; G. G. Jacquemin; LOCKHEED MISSILES & SPACE COMPANY; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session IV, Chmn. P. A. Lord, 26-27 April 1979; p. 283

COMPARATIVE EVALUATION OF OPERABILITY OF LARGE SPACE STRUCTURES; J. W. Stokes; NASA MARSHALL SPACE FLIGHT CENTER; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 357

SPACE TELESCOPE:

APPENDAGE DEPLOYMENT MECHANISM FOR THE HUBBLE SPACE TELESCOPE PROGRAM; Greenfield, H. T., Lockheed Missiles & Space Co., Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985; p. 329

FEATURES OF THE SOLAR ARRAY DRIVE MECHANISM FOR THE SPACE TELESCOPE; Hostenkamp, R. G., Dornier System GmbH, Friedrichshafen, West Germany; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 315

POLARIZER MECHANISM FOR THE SPACE TELESCOPE FAINT OBJECT; Thulson, M. D., Martin-Marietta Aerospace, Denver, CO; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session II, Chmn. Allen J. Louviere; 5-6 May 1983; p. 97

SPACE TELESCOPE - SOLAR ARRAY PRIMARY DEPLOYMENT MECHANISM; Chandler, D. P. and Veit, A., Contraves AG, Zurich, Switzerland; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session I, Chmn. Dr. Hans Hintermann; 5-6 May 1983; p. 39

SPECTROHELIOGRAPH:

OSO-7 SPECTROHELIOGRAPH MECHANISMS; D. N. Matteo; GENERAL ELECTRIC COMPANY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session I, Chmn. D. F. Welch, 18-19 October 1973; p. 1

SPIKE MECHANISM:

DEVELOPMENT OF THE TRIDENT I AERODYNAMIC SPIKE MECHANISM; M. D. Waterman and B. J. Richter; LOCKHEED MISSILES & SPACE COMPANY; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. D. G. Wong, 26-27 April 1979; p. 39

SPIN/EJECT:

A SIMULTANEOUS SPIN/EJECT MECHANISM FOR AEROSPACE PAYLOADS; G. D. Palmer, TRW SYSTEMS GROUP, and T. N. Banks, AVCO SYSTEMS DIVISION; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 165

SPIN-UP LAUNCH:

THE INTEGRATED ROCKET SPIN-UP LAUNCH MECHANISM; J. Hillan; LOCKHEED MISSILES & SPACE COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 101

SPLITTER:

LUNAR ROCK SPLITTER/CAN SEALER; K. G. Johnson; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 73

SPRING:

MAGNETIC SPRING IN OSCILLATING MIRROR LINEAR SCANNER FOR SATELLITE CAMERA; G. Thomin, CENTRE NATIONAL D'ETUDES SPATIALES, and C. Fouche, SOCIETE EUROPEENNE DE PROPULSION; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session III, Chmn. T. E. Shoup, 26-27 April 1979; p. 183

SPUTTERING:

ADVANCES IN SPUTTERED AND ION PLATED SOLID FILM LUBRICATION; Spalvins, T., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session III, Chmn. Dr. Horst Klages; 1-3 May 1985, p. 209

SSM/I:

SIX MECHANISMS USED ON THE SSM/I RADIOMETER; Ludwig, H. R., Hughes Aircraft Co., El Segundo, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985; p. 347

STAGING:

DEVELOPMENT OF STAGING MECHANISMS FOR THE JAPANESE SATELLITE LAUNCHER Mu-3SII; Onoda, J., The Institute of Space and Astronautical Science, Tokyo, Japan; Nineteenth AMS, NASA CP-2371, Held at NASA AMES Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 259

STAGING: (Cont'd)

SEPARATION AND STAGING MECHANISMS FOR THE INDIAN SLV-3 LAUNCH VEHICLE; Majeed, M. K. A., Natarajan, K., and Krishnankutty, V. K., Indian Space Research Organization, Vikram Sarabhai Space Centre Trivandrum, India; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 277

DEVELOPMENT OF STAGING MECHANISMS FOR THE JAPANESE SATELLITE LAUNCHER MU-3SII; Onoda, J., The Institute of Space and Astronautical Science, Tokyo, Japan; Nineteenth AMS, NASA CP-2371, Held at NASA AMES Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 259

STAIRCLIMBING:

MODERN MECHANISMS MAKE MANLESS MARTIAN MISSILE MOBILE - SPIN-OFF SPELLS STAIRCLIMBING SELF-SUFFICIENCY FOR EARTHBOUND HANDICAPPED; G. N. Sandor, D. R. Hassel, and P. F. Marino; RENSSELAER POLYTECHNIC INSTITUTE; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session III, Chmn. A. Giovannetti, 17-18 October 1974; p. 247

STEPPER MOTOR(S):

A BAPTA EMPLOYING ROTARY TRANSFORMERS, STEPPER MOTORS AND CERAMIC BALL BEARINGS; W. Auer; TELDIX, GERMANY; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 189

A STEPPER MOTOR FOR THE SURVEYOR SPACECRAFT; F. A. Glassow; HUGHES AIRCRAFT COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 15

DESIGN AND DEVELOPMENT OF A CONSTANT SPEED SOLAR ARRAY DRIVE; Jones, H. M. and Roger, N., Spar Aerospace Ltd., Toronto, Ontario, Canada; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 103

THE DESIGN AND DEVELOPMENT OF A SELF-COMMUTATING STEPPER MOTOR; K. R. Dalley; MARCONI SPACE AND DEFENSE SYSTEMS, UNITED KINGDOM (presented by M. Briscoe, SPACEUROP, THE NETHERLANDS); Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Jones, Jr., 27-28 April 1978; p. 25

ULTRAHIGH RESOLUTION STOPPER MOTORS, DESIGN, DEVELOPMENT, PERFORMANCE, AND APPLICATION; H. Moll and G. Roekl; TELDIX GmbH, GERMANY; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Jones, Jr., 27-28 April 1978; p. 13

STOP MECHANISM:

A MOVABLE STOP MECHANISM FOR THE SIRE TELESCOPE; R. E. Tweedt and R. N. Poulsen; HUGHES AIRCRAFT COMPANY; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 109

STRUT:

A STRUT WITH INFINITELY ADJUSTABLE THERMAL EXPANSIVITY AND LENGTH; P. T. Nelson; TRW SYSTEMS GROUP; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session I, Chmn. E. E. Sechler, 17-18 October 1974; p. 59

SUPPORT SYSTEM:

FLIGHT SUPPORT SYSTEM MECHANISM; W. A. Leavy; NASA GODDARD SPACE FLIGHT CENTER; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 23

SURVEYOR 3:

EVALUATION OF MECHANISMS RETURNED FROM SURVEYOR 3; J. R. Jones, W. J. Quinn, and K. G. Bingemann, Jr.; HUGHES AIRCRAFT COMPANY; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 1

SUSPENSION(S):

ELASTIC SUSPENSION OF A WIND TUNNEL TEST SECTION; R. Hacker, LOCKHEED MISSILES & SPACE COMPANY, S. Rock, SYSTEMS CONTROL, INC., and D. B. DeBra, STANFORD UNIVERSITY; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 277

HOOP/COLUMN ANTENNA DEPLOYMENT MECHANISM OVERVIEW; Allen, B. B., Harris Corp., Melbourne, FL and Butler, D. H., NASA Langley Research Center, Hampton, VA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 23

MECHANICAL SUSPENSIONS FOR SPACE APPLICATIONS; G. G. Herzl; LOCKHEED MISSILES & SPACE COMPANY; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session II, Chmn. G. G. Herzl, 23-24 May 1968; p. 101

SWITCH:

THE SURVEYOR THERMAL SWITCH; T. E. Deal; HUGHES AIRCRAFT COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 93

TEAL RUBY:

DESIGN AND TEST OF A LOW-TEMPERATURE LINEAR DRIVER/RATE CONTROLLER; Lowry, C. H., Rockwell International, Space Transportation and Systems Group, Downey, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 65

TELEOPERATOR:

DUAL ARM MASTER CONTROLLER DEVELOPMENT; Kuban, D. P., Oak Ridge National Laboratory, Oak Ridge, TN and Perkins, G. S., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 235

TELEPRESENCE:

TELEPRESENCE WORK SYSTEM CONCEPTS; Jenkins, L. ., NASA Johnson Space Center, Houston, TX; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p.225

TELESCOPE:

A SYSTEMS APPROACH TO MECHANISMS FOR A WHITE LIGHT CORONAGRAPH/X-RAY XUV TELESCOPE; R. Mastronardi and R. E. Cabral; AMERICAN SCIENCE AND ENGINEERING, INC.; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 77

NASA-ARC 36-INCH AIRBORNE INFRARED TELESCOPE; R. E. Mobley and R. M. Cameron; NASA AMES RESEARCH CENTER; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 81

NASA-ARC 91.5-CM AIRBORNE INFRARED TELESCOPE; R. E. Mobley and T. M. Brown; NASA AMES RESEARCH CENTER; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session IV, Chmn. M. Briscoe, 27-28 April 1978; p. 233

TELESCOPIC JIB:

A TELESCOPIC JIB FOR CONTINUOUS ADJUSTMENT; C. Ch. Etzler; DORNIER SYSTEM GmbH, GERMANY; Thirteenth AMS, NASA CP-2081, Held at Lyndon B. Johnson Space Center, TX; Session I, Chmn. D. G. Wong, 26-27 April 1979; p. 49

TELEVISION:

SURVEYOR TELEVISION MECHANISM; J. B. Gudikunst; HUGHES AIRCRAFT COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 59

TEST/TESTING:

IMPORTANCE OF THERMAL-VACUUM TESTING IN ACHIEVING HIGH RELIABILITY OF SPACECRAFT MECHANISMS; Parker, K., European Space Tribology Laboratory, Risley, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 93

TWO-DIMENSIONAL OSCILLATING AIRFOIL TEST APPARATUS; F. L. Gibson, A. J. Hocker, Jr., and D. S. Matsuhira; NASA AMES RESEARCH CENTER; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session III, Chmn. B. W. Ward, Jr., 28-29 April 1977; p. 177

THERMAL ACTUATOR:

DESIGN AND DEVELOPMENT OF A LINEAR THERMAL ACTUATOR; Bush, G. and Osborne, D., Spar Aerospace Ltd., Ste. Anne de Bellevue, Quebec, Canada; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985, p. 87

THERMAL DISTORTIONS:

CONTROL OF LARGE THERMAL DISTORTIONS IN A CRYOGENIC WIND TUNNEL; Gustafson, J. C., NASA Langley Research Center, Hampton, VA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session III, Chmn. Dr. A. H. Hausrath; 5-6 May 1983; p. 121

THERMAL-VACUUM:

IMPORTANCE OF THERMAL-VACUUM TESTING IN ACHIEVING HIGH RELIABILITY OF SPACECRAFT MECHANISMS; Parker, K., European Space Tribology Laboratory, Risley, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 93

THROTTLE MECHANISM:

MAN-VEHICLE SYSTEMS RESEARCH FACILITY, ADVANCED AIRCRAFT FLIGHT SIMULATOR THROTTLE MECHANISM; Kurasaki, S. S., and Vallotton, W. C., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session IV, Chmn. Professor Erik K. Antonsson; 1-3 May 1985; p. 251

TIMERS:

SPACECRAFT HYDRAULIC TIMERS; H. D. Trimble; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; First AMS, AD 638 916, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 19-20 May 1966; p. 101

TISSUE CULTURE:

ZERO-GRAVITY TISSUE-CULTURE LABORATORY; J. E. Cook, P. O'B. Montgomery, Jr., and J. S. Paul; UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL SCHOOL; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session II, Co-chmn. J. D. Schmuecker and F. T. Martin, 7-8 September 1972; p. 81

TORQUE BALANCE CONTROL:

A TORQUE BALANCE CONTROL MOMENT GYROSCOPE ASSEMBLY FOR ASTRONAUT MANEUVERING; D. C. Cunningham and G. W. Driskill; SPERRY RAND CORPORATION; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 121

TRACTION DRIVES:

APPLICATION OF TRACTION DRIVES AS SERVO MECHANISMS; Lowenthal, S. H., Rohn, D. A. and Steinetz, B. M., NASA Lewis Research Center, Cleveland, OH; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session II, Chmn. Lester D. Nichols; 1-3 May 1985; p. 119

TRACKING UNIT:

ANTENNA TRACKING MECHANISM FOR GEOSTATIONARY SATELLITES; Francis, C. M., Ford Aerospace and Communications Corporation, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 203

DESIGN AND DEVELOPMENT OF A SOLAR TRACKING UNIT; Jones, I. W. and Miller, J. B., NASA Langley Research Center, Hampton, VA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 187

PASSIVE SUN SEEKER/TRACKER AND A THERMALLY ACTIVATED POWER MODULE; Siebert, C. J. and Morris, F. A., Martin Marietta Aerospace, Denver, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 4, Chmn. Prof. Charles R. Hayleck, Jr.; 2-4 May 1984; p. 171

TRANSDUCER:

TRANSDUCER TECHNOLOGY TRANSFER TO BIO-ENGINEERING APPLICATIONS; E. N. Duran, G. W. Lewis, C. Feldstein, Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY, and E. Corday, S. Meerbaum, Tzu-Wang Lang, CEDARS-SINAI MEDICAL CENTER; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 283

TRANSFER ORBIT STAGE:

DUAL FAULT TOLERANT AEROSPACE ACTUATOR; Siebert, C. J., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 293

TRANSFER VALVE:

FUEL/HYDRAULIC TRANSFER VALVE IMPROVES RELIABILITY OF ATLAS SPACE LAUNCH VEHICLE; M. Ogman; Convair Division, GENERAL DYNAMICS CORPORATION; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 155

TRANSPORT:

A SOLID-STATE FILM TRANSPORT; C. M. Davis, TELEDYNE RYAN AERONAUTICAL, and D. B. Learish, AFAL/RSO; Sixth AMS, NASA TM X-2557, Held at NASA Ames Research Center, CA; Gen. Chmn. G. G. Herzl, 9-10 September 1971; p. 127

CRAWLER TRANSPORTER STEERING AND JEL SYSTEM; V. L. Davis; NASA JOHN F. KENNEDY SPACE CENTER; Ninth AMS, NASA TM X-3274, Held at John F. Kennedy Space Center, FL; Session IV, Chmn. D. Buchanan; 17-18 October 1974; p. 359

FOCAL PLANE TRANSPORT ASSEMBLY FOR THE HEAO-B X-RAY TELESCOPE; R. Brissette, P. D. Allard, F. Keller, E. Strizhak, E. Wester; AMERICAN SCIENCE AND ENGINEERING, INC.; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 63

TRIBOLOGY:

IMPORTANCE OF THERMAL-VACUUM TESTING IN ACHIEVING HIGH RELIABILITY OF SPACECRAFT MECHANISMS; Parker, K., European Space Tribology Laboratory, Risley, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 93

TRUSS:

DESIGN AND OPERATION OF A DEPLOYABLE TRUSS STRUCTURE; Miura, K., The Institute of Space and Astronautical Science, Tokyo, Japan; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 49

11-METER DEPLOYABLE TRUSS FOR THE SEASAT RADAR ANTENNA; B. E. Campbell, ASTRO RESEARCH CORPORATION and W. Hawkins, BALL BROTHERS RESEARCH CORPORATION; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 77

TRUSS: (Cont'd)

DESIGN, DEVELOPMENT AND MECHANIZATION OF A PRECISION DEPLOYABLE TRUSS WITH OPTIMIZED STRUCTURAL EFFICIENCY FOR SPACEBORNE APPLICATIONS;

N. D. Craighead, T. D. Hult, and R. J. Preliasco; LOCKHEED MISSILES & SPACE COMPANY; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W., Coale, 13-14 May 1982; p. 315

GALILEO SPACECRAFT MAGNETOMETER BOOM; Packard, D. T. and Benton, M. D., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 1

SPACE-DEPLOYABLE BOX TRUSS STRUCTURE DESIGN; J. V. Coyner and W. H. Tobey; MARTIN-MARIETTA DENVER AEROSPACE; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 137

TWO-PLANE BALANCE:

TWO-PLANE BALANCE AND SLIP-RING DESIGN; Luna, P. M., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985; p. 379

TWO-FAILURE TOLERANT:

DESIGN AND DEVELOPMENT OF TWO-FAILURE TOLERANT MECHANISMS FOR THE SPACEBORNE IMAGING RADAR (SIR-B) ANTENNA; Presas, S. J., Ball Aerospace, High Technology Products, Boulder, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 131

INHERENT PROBLEMS IN DESIGNING TWO-FAILURE TOLERANT ELECTROMECHANICAL ACTUATORS; Hornyak, S., General Dynamics Convair Division, San Diego, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 155

UMBILICAL:

MARS PENETRATOR UMBILICAL; C. E. Barns; NASA AMES RESEARCH CENTER; Twelfth AMS, NASA CP-2080, Held at NASA Ames Research Center, CA; Session I, Chmn. J. L. Adams, 27-28 April 1978; p. 43

ROLLING BEAM UMBILICAL SYSTEM; Tatem, B. C. Jr., Planning Research Corp., NASA Kennedy Space Center, FL; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VI, Chmn. Lloyd W. Briggs; 5-6 May 1983; p. 289

UMBILICAL: (Cont'd)

SPACECRAFT AUTOMATIC UMBILICAL SYSTEM; R. W. Goldin, G. G. Jacquemin, LOCKHEED MISSILES & SPACE COMPANY, and W. H. Johnson, MARSHALL SPACE FLIGHT CENTER; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 391

THE CONCEPTION, BIRTH, AND GROWTH OF A MISSILE UMBILICAL SYSTEM; G. W. Nordman, MARTIN-MARIETTA CORPORATION; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. G. A. Smith, 28-29 April 1977; p. 203

UNFURLABLE STRUCTURES:

THE BI-STEM - A NEW TECHNIQUE IN UNFURLABLE STRUCTURES; J. D. MacNaughton, H. N. Weyman, and E. Groskopfs; Special Projects and Applied Research Division, THE DE HAVILLAND AIRCRAFT OF CANADA, LIMITED; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 139

VAPOR COMPRESSOR:

THE MECHANICAL DESIGN OF A VAPOR COMPRESSOR FOR A HEAT PUMP TO BE USED IN SPACE; F. Berner, H. Oesch, K. Goetz, SWISS FEDERAL AIRCRAFT FACTORY, SWITZERLAND, and C. J. Savage, EUROPEAN SPACE AGENCY, ESTEC, THE NETHERLANDS; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 329

VARIABLE CAMBER FLAP:

AIRPLANE WING LEADING EDGE VARIABLE CAMBER FLAP; J. B. Cole; BOEING COMMERCIAL AIRPLANE COMPANY; Fourteenth AMS, NASA CP-2127, Held at NASA Langley Research Center, VA; Chmn. C. W. Coale, 1-2 May 1980; p. 225

VENT:

SPACE SHUTTLE EXTERNAL TANK GASEOUS OXYGEN VENT SYSTEM; W. G. Franklin; NASA JOHN F. KENNEDY SPACE CENTER; Sixteenth AMS, NASA CP-2221, Held at NASA John F. Kennedy Space Center, FL; Chmn. C. W. Coale, 13-14 May 1982; p. 299

VIKING:

DEPLOYMENT AND RELEASE MECHANISMS ON THE SWEDISH SATELLITE, VIKING; Eriksson, S., Saab-Space AB, Linkoping, Sweden; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session VI, Chmn. Lloyd W. Briggs; 5-6 May 1983; p. 305

VIKING: (Cont'd)

VIKING GC/MS MECHANISMS DESIGN AND PERFORMANCE; C. P. Chase and O. Weillbach; BECKMAN INSTRUMENTS, INC.; Tenth AMS, NASA TM 33-777, Held at the Jet Propulsion Laboratory, CA; Chmn.(Host) P. Bomke, 22-23 April 1976; p. 208

VIKING LANDER ANTENNA DEPLOYMENT MECHANISM; K. H. Hopper and D. S. Monitor; MARTIN-MARIETTA AEROSPACE CORPORATION; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session III, Chmn. A. C. Bond, 18-19 October 1973; p. 257

VIKING MECHANISMS: A POST-MISSION REVIEW; V. P. Gillespie; NASA LANGLEY RESEARCH CENTER; Eleventh AMS, NASA CP 2038, Held at NASA Goddard Space Flight Center, MD; Session IV, Chmn. K. C. Curry, 28-29 April 1977; p. 241

VIKING ORBITER 1975 ARTICULATION CONTROL ACTUATORS; G. S. Perkins; Jet Propulsion Laboratory, CALIFORNIA INSTITUTE OF TECHNOLOGY; Eighth AMS, NASA TM X-2934, Held at NASA Langley Research Center, VA; Session IV, Chmn. R. W. Lester, 18-19 October 1973; p. 335

WEIGHT SPRINGS:

MINIMUM-WEIGHT SPRINGS; H. O. Fuchs; STANFORD UNIVERSITY; Third AMS, TM 33-382, Held at the Jet Propulsion Laboratory, CA; Session I, Chmn. G. G. Herzl, 23-24 May 1968; p. 27

WELD-ALLOY:

WELD-ALLOY; J. C. McDonald and J. C. Olsen; LOCKHEED MISSILES & SPACE COMPANY; Second AMS, TM 33-355, Held at the University of Santa Clara, CA; Chmn. G. G. Herzl, 4-5 May 1967; p. 155

WELDING:

PRACTICAL SMALL-SCALE EXPLOSIVE SEAM WELDING; Bement, L. J., NASA Langley Research Center, Hampton, VA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session V, Chmn. Bill M. McAnally; 5-6 May 1983; p. 227

WINDOWS:

MECHANICALLY PRESTRESSED WINDOWS; W. H. Keathley; NASA MANNED SPACECRAFT CENTER; Seventh AMS, NASA TM X-58106, Held at NASA Manned Spacecraft Center, TX; Session III, Co-chmn. D. Welch and O. Fedor, 7-8 September 1972; p. 149

WIND TUNNEL:

CONTROL OF LARGE THERMAL DISTORTIONS IN A CRYOGENIC WIND TUNNEL; Gustafson, J. C., NASA Langley Research Center, Hampton, VA; Seventeenth AMS, NASA CP-2273, Held at Jet Propulsion Laboratory, CA; Session III, Chmn. Dr. A. H. Hausrath; 5-6 May 1983; p. 121

ZERO-G:

DEPLOYMENT FIXTURE FOR THE SIMULATED ZERO-GRAVITY TESTING OF A LARGE-AREA SOLAR ARRAY; Lackey, J. A.; The Boeing Company; Fourth AMS, TM 33-425, Held at the University of Santa Clara, CA; Session III, Chmn. H. Frankel, 22-23 May 1969; p. 83

HOOP/COLUMN ANTENNA DEPLOYMENT MECHANISM OVERVIEW; Allen, B. B., Harris Corp., Melbourne, FL and Butler, D. H., NASA Langley Research Center, Hampton, VA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 23

ZERO GRAVITY TESTING OF FLEXIBLE SOLAR ARRAYS; Chung, D. T., Lockheed Missiles & Space Company, and Young, L. E., Marshall Space Flight Center; Fifteenth AMS, NASA CP-2181, Held at NASA George C. Marshall Space Flight Center, AL; Chmn. C. W. Coale, 14-15 May 1981; p. 115

5. LISTING BY PROJECT

PROJECT INDEX OF SYMPOSIUM PAPERS STARTING WITH THE 18TH AMS
(ALPHABETICAL BY TITLE)

ADVANCED TURBOPROP PROGRAM:

TWO-PLANE BALANCE AND SLIP-RING DESIGN; Luna, P. M., NASA Ames Research Center, Moffett Field, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VII, Chmn. Otto Fedor; 1-3 May 1985; p. 379

CLAES:

DESIGN OF A PRECISION ETALON POSITION CONTROL SYSTEM FOR A CRYOGENIC SPECTROMETER; Auburn, J. N., Lorell, K. R., Zacharie, D. F. and Thatcher, J. B., Lockheed Palo Alto Research Laboratories, Palo Alto, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 243

DSCS III:

IMPROVING SLIPRING PERFORMANCE; Matteo, D. N., General Electric Co., Space Systems Division, Philadelphia, PA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 111

ECHO 6:

ELECTRON ECHO 6 MECHANICAL DEPLOYMENT SYSTEMS; Meyers, S. C., NASA Goddard Space Flight Center, Greenbelt, MD; Steffen, J. E., Malcolm, P. R. and Winckler, J. R., University of Minnesota, Minneapolis, MN; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 263

GALILEO:

GALILEO SPACECRAFT MAGNETOMETER BOOM; Packard, D. T. and Benton, M. D., Jet Propulsion Laboratory, Pasadena, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session I, Chmn. Professor Richard K. Pefley; 1-3 May 1985; p. 1

INSTRUMENT POINTING SYSTEM:

ACTUATOR DEVELOPMENT FOR THE INSTRUMENT POINTING SYSTEM (IPS); Sutter K., Dornier System GmbH, Friedrichshafen, West Germany; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 1, Chmn. Otto H. Fedor; 2-4 May 1984; p. 15

L-SAT/OLYMPUS:

EVOLUTION FROM A HINGE ACTUATOR MECHANISM TO AN ANTENNA DEPLOYMENT MECHANISM FOR USE ON THE EUROPEAN LARGE COMMUNICATIONS SATELLITE (L-SAT/OLYMPUS); De'Ath, M. D., British Aerospace Dynamics Group, Stevenage, Herts, England; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 79

MU-3SII:

DEVELOPMENT OF STAGING MECHANISMS FOR THE JAPANESE SATELLITE LAUNCHER MU-3SII; Onoda, J., The Institute of Space and Astronautical Science, Tokyo, Japan; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session V, Chmn. Therin Heine; 1-3 May 1985; p. 259

SAN MARCO D/L:

PASSIVELY CONTROLLED APPENDAGE DEPLOYMENT SYSTEM FOR THE SAN MARCO D/L SPACECRAFT; Lang, W. E., Frisch, H. P., and Schwartz, D. A., NASA Goddard Space Flight Center, Greenbelt, MD; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 29

SHUTTLE/CENTAUR:

INHERENT PROBLEMS IN DESIGNING TWO-FAILURE TOLERANT ELECTROMECHANICAL ACTUATORS; Hornyak, S., General Dynamics Convair Division, San Diego, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 155

SIR-B:

DESIGN AND DEVELOPMENT OF TWO-FAILURE TOLERANT MECHANISMS FOR THE SPACEBORNE IMAGING RADAR (SIR-B) ANTENNA; Presas, S. J., Ball Aerospace, High Technology Products, Boulder, CO; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 3, Chmn. Lt. Col. Ted Schroeder; 2-4 May 1984; p. 131

SLV-3:

SEPARATION AND STAGING MECHANISMS FOR THE INDIAN SLV-3 LAUNCH VEHICLE; Majeed, M. K. A., Natarajan, K., and Krishnankutty, V. K., Indian Space Research Organization, Vikram Sarabhai Space Centre Trivandrum, India; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr.; 2-4 May 1984; p. 277

SPACE TELESCOPE:

APPENDAGE DEPLOYMENT MECHANISM FOR THE HUBBLE SPACE TELESCOPE PROGRAM; Greenfield, H. T., Lockheed Missiles & Space Co., Sunnyvale, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985; p. 329

FEATURES OF THE SOLAR ARRAY DRIVE MECHANISM FOR THE SPACE TELESCOPE; Hostenkamp, R. G., Dornier System GmbH, Friedrichshafen, West Germany; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 315

SPACELAB 1, 4:

DESIGN AND DEVELOPMENT OF A RELEASE MECHANISM FOR SPACE SHUTTLE LIFE-SCIENCE EXPERIMENTS; Jones, H. M. and Daniell, R. G., Spar Aerospace Limited, Weston, Ontario Canada; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 1, Chmn. Otto H. Fedor; 2-4 May 1984; p. 1

SPACELAB 4 - PRIMATE EXPERIMENT SUPPORT HARDWARE; Fusco, P. R. and Peyran, R. J., NASA Ames Research Center, Moffett Field, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 5, Chmn. James B. Sterett, Jr., 2-4 May 1984; p. 215

SSM/I:

SIX MECHANISMS USED ON THE SSM/I RADIOMETER; Ludwig, H. R., Hughes Aircraft Co., El Segundo, CA; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William G. Smith; 1-3 May 1985; p. 347

TEAL RUBY:

DESIGN AND TEST OF A LOW-TEMPERATURE LINEAR DRIVER/RATE CONTROLLER; Lowry, C. H., Rockwell International, Space Transportation and Systems Group, Downey, CA; Eighteenth AMS, NASA CP-2311, Held at NASA Goddard Space Flight Center, MD; Session 2, Chmn. Louis K. Kiraly; 2-4 May 1984; p. 65

TRANSFER ORBIT STAGE:

DUAL FAULT TOLERANT AEROSPACE ACTUATOR; Siebert, C. J., Martin Marietta Aerospace, Denver, CO; Nineteenth AMS, NASA CP-2371, Held at NASA Ames Research Center, Moffett Field, CA; Session VI, Chmn. William J. Smith; 1-3 May 1985; p. 293

6. KEYWORDS

AMS KEYWORD LIST

-A-

1. Acquisition
2. Actuating/Actuation/Actuator
3. Adaptor
4. Advanced Turboprop Program
5. Aircraft
6. Airfoil
7. Airlock
8. Air Vanes
9. Alignment System
10. Angle-of-Attack Sensor
11. Antenna
12. Antiback-Drive Device

-B-

13. Ball Bearings
14. Ball Screw
15. Beam
16. Beam Builder
17. Bearing(s)/Bearing Gimbals/Bearing Reactors
18. Biosatellite
19. Boom
20. Boom/Boom Mechanisms
21. Brakes
22. Brushes

-C-

23. Caging Mechanism
24. Canister
25. Cartridge Firing Device
26. Centrifuge
27. Circulating Pump
28. Circulation Control
29. CLAES
30. Clamp Mechanism
31. Closure
32. Coalignment
33. Compression Springs
34. Computer-Aided Design
35. Computer Graphics
36. Computer Modeling
37. Contamination Monitor
38. Control Mechanism
39. Cooler
40. Coupling
41. Crystals
42. Customer's Opinion

-D-

- 43. Damper(s)/Damping Systems
- 44. Deformable System
- 45. Deploy
- 46. Deployable Truss
- 47. Deployment Fixture
- 48. Deployment Mechanism
- 49. Deployment System
- 50. Despin Assembly
- 51. Despin/Despinning
- 52. Dewatering
- 53. Diagnostic Probe
- 54. Disconnect
- 55. Dispersion
- 56. Docking/Docking Mechanism/Docking System
- 57. Door
- 58. Drive/Drive Actuator/Drive Mechanism/Drive System/Drive Unit
- 59. DSCS III
- 60. Dual Fault Tolerant

-E-

- 61. Eccentuator
- 62. Echo 6
- 63. Electrical Noise
- 64. Electrical Transfer
- 65. Energy Absorber
- 66. Ejection Seat
- 67. Electromechanical Devices
- 68. Emergency Egress
- 69. End Effector
- 70. Energy Absorber
- 71. Energy Collector
- 72. Erection Mechanisms
- 73. Escape System
- 74. Exercise System
- 75. Explosive Device
- 76. Exposure Facility
- 77. Extendible Structure

-F-

- 78. Fairing
- 79. F/G Feed Movement
- 80. Filter Mechanism
- 81. Fittings
- 82. Flight Simulator
- 83. Flow-Control Valve
- 84. Flywheel
- 85. Four Point Contact Bearings
- 86. Fraction Collector
- 87. Friction and Wear Mechanism

-G-

- 88. Galileo
- 89. Gearing
- 90. Gimbal System

-H-

- 91. Hatch
- 92. Heat Pipes
- 93. Helical Grip
- 94. Helicopter
- 95. Heliotrope
- 96. Hinge
- 97. Hinge Mechanism
- 98. Hoop/Column

-I-

- 99. Icing
- 100. Impact Problems
- 101. Impact - Resistant Mechanisms
- 102. Injector
- 103. Inspection Mechanisms
- 104. Instrument Pointing System
- 105. Ion Plating

-J-

- 106. Jettison

-L-

- 107. Lander
- 108. Landing Gear
- 109. Laser Mirror Mount
- 110. Latch
- 111. Latch Diaphragm
- 112. Latching Hinge
- 113. Latch Mechanism
- 114. Latch Two-Failure Tolerant
- 115. Launcher
- 116. Lifescience
- 117. Lifetime
- 118. Lift Generation
- 119. Linkwork
- 120. Liquid Pump
- 121. Loadcell
- 122. Lock/Latch Systems
- 123. Low-Temperature
- 124. L-Sat/Olympus
- 125. Lubricant/Lubrication
- 126. Lunar Cart

-M-

- 127. Magnetic Bearings
- 128. Magnetometer
- 129. Manipulate/Manipulator(s)/Manipulative
- 130. Man-Vehicle Systems
- 131. Masts/Mast Concept
- 132. Mechanical System
- 133. Memory
- 134. Microprocessor
- 135. Molecular Sink
- 136. Molsink
- 137. Momentum Wheel
- 138. Motion Compensator
- 139. Mount/Mount Mechanisms
- 140. Muscle Stress Apparatus
- 141. MU-3SII

-N-

- 142. Nimbus Weather Satellite
- 143. Nitinol
- 144. Noise
- 145. Noncontacting Systems

-O-

- 146. Orientation Device

-P-

- 147. Paddle Drives
- 148. Parachute
- 149. Parachute System
- 150. Parasol
- 151. Parking Garage
- 152. Payload
- 153. Perfluorether Lubricant
- 154. Photopolarimeter
- 155. Photo-Subsystem Mechanisms
- 156. Pin Mechanism
- 157. Pin Puller
- 158. Pivot(s)
- 159. Platform Structure
- 160. Pointing Mechanism
- 161. Pointing System
- 162. Polarimeter
- 163. Polarizer
- 164. Position
- 165. Power Hinge
- 166. Power Transfer
- 167. Primate Mission

- 168. Problems
- 169. Propellers
- 170. Prosthetic Attachment
- 171. Protection Assembly
- 172. Pump
- 173. Pyromechanical

-R-

- 174. Radar Device
- 175. Radiation Source Holder
- 176. Radiometer
- 177. Reaction Wheels
- 178. Reciprocating Engine
- 179. Recorder
- 180. Reflectance-Degradation
- 181. Refrigeration
- 182. Refurbishment
- 183. Regulator
- 184. Release Device
- 185. Release Mechanism
- 186. Release Nut
- 187. Release System
- 188. Reliability
- 189. Restraining
- 190. Retainers
- 191. Retro-Reflector Array
- 192. Robotics
- 193. Rolamite
- 194. Roll Balance
- 195. Roll Coupling
- 196. Roll Ring
- 197. Roller Drive
- 198. Rotary
- 199. Rotating Speed Mechanism
- 200. Rotation
- 201. Rudder/Speedbrake

-S-

- 202. Sampler
- 203. San Marco P/L
- 204. Satellite Control
- 205. Scanner/Scanning
- 206. Seal
- 207. Seat
- 208. Securing Mechanism
- 209. Self-Destruct
- 210. Sequencing System
- 211. Sensor
- 212. Separation
- 213. Separation Apparatus
- 214. Servoactuator

215. Servomanipulator
216. Servomechanisms
217. Shaker
218. Shock Isolation
219. Shutter
220. Shuttle/Centaur
221. Silicate Friction
222. Simulator
223. SIR-B
224. Sliprings
225. SLV-3
226. Smart Mechanisms
227. Smart Motor
228. Snap Mechanism
229. Soil Sampler
230. Solar Array/Panel
231. Solid Film Lubrication
232. Sounding Rocket
233. Spacelab
234. Space Mechanisms
235. Space Structures
236. Space Telescope
237. Spectroheliograph
238. Spike Mechanism
239. Spin/Eject
240. Spin-Up Launch
241. Splitter
242. Spring
243. Sputtering
244. SSM/I
245. Staging
246. Stairclimbing
247. Stepper Motor(s)
248. Stop Mechanism
249. Strut
250. Support System
251. Surveyor 3
252. Suspension(s)
253. Switch

-T-

254. Teal Ruby
255. Teleoperator
256. Telepresence
257. Telescope
258. Telescopic Jib
259. Television
260. Test
261. Testing
262. Thermal Actuator
263. Thermal-Vacuum
264. Throttle Mechanism

265. Timers
266. Tissue Culture
267. Torque Balance Control
268. Tracking Unit
269. Traction Drives
270. Transducer
271. Transfer Orbit Stage
272. Transfer Valve
273. Transport
274. Tribology
275. Truss
276. Two-Failure Tolerant
277. Two-Plane Balance

-U-

278. Umbilical
279. Unfurlable Structures

-V-

280. Vapor Compressor
281. Variable Camber Flap
282. Vent
283. Viking

-W-

284. Weight Springs
285. Weld-Alloy
286. Welding
287. wind Tunnel
288. Windows

-Y-

-Z-

289. Zero-G Suspension

7 PRIOR SYMPOSIA INFORMATION

PRIOR SYMPOSIA IN THIS SERIES

First Aerospace Mechanisms Symposium

May 19-20, 1966

University of Santa Clara

Santa Clara, California 95053

PROCEEDINGS, AD 638 916, Accession No. N67-16901, are available from:

National Technical Information Service

Springfield, Virginia 22161

Second Aerospace Mechanisms Symposium

May 4-5, 1967

University of Santa Clara

Santa Clara, California 95053

PROCEEDINGS, TM 33-355, Accession No. N67-36203, are available from:

National Technical Information Service

Springfield, Virginia 22161

Third Aerospace Mechanisms Symposium

May 23-24, 1968

Jet Propulsion Laboratory

California Institute of Technology

Pasadena, California 91125

PROCEEDINGS, TM 33-382, Accession No. N69-11801, are available from:

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Fourth Aerospace Mechanisms Symposium

May 22-23, 1969

University of Santa Clara

Santa Clara, California 95053

PROCEEDINGS, TM 33-425, Accession No. N70-21426, are available from:

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Fifth Aerospace Mechanisms Symposium

June 15-16, 1970

NASA Goddard Space Flight Center

Greenbelt, Maryland 20771

PROCEEDINGS, NASA SP-282, Accession No. N72-13391, are available from:

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Sixth Aerospace Mechanisms Symposium

September 9-10, 1971

NASA Ames Research Center

Moffett Field, California 94035

PROCEEDINGS, NASA TM X-2557, Accession No. N72-26377, are available from:

National Technical Information Service

Springfield, Virginia 22161

Seventh Aerospace Mechanisms Symposium

September 7-8, 1972

NASA Manned Spacecraft Center

Houston, Texas 77058

PROCEEDINGS, NASA TM X-58106, Accession No. N73-18866, are available from:

National Technical Information Service

Springfield, Virginia 22161

Eighth Aerospace Mechanisms Symposium

October 18-19, 1973

NASA Langley Research Center

Hampton, Virginia 23665

PROCEEDINGS, NASA TM X-2934, Accession No. N76-19172, are available from:

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Springfield, Virginia 22161

Ninth Aerospace Mechanisms Symposium

October 17-18, 1974

John F. Kennedy Space Center

Kennedy Space Center, Florida 32899

PROCEEDINGS, NASA TM X-3274, Accession No. N76-28272, are available from:

National Technical Information Service

Springfield, Virginia 22161

Tenth Aerospace Mechanisms Symposium

April 22-23, 1976

Jet Propulsion Laboratory

California Institute of Technology

Pasadena, California 91125

PROCEEDINGS, TM 33-777, Accession No. N78-19026, are available from:

National Technical Information Service

Springfield, Virginia 22161

Eleventh Aerospace Mechanisms Symposium

April 28-29, 1977

NASA Goddard Space Flight Center

Greenbelt, Maryland 20771

PROCEEDINGS, NASA CP-2038, Accession No. N79-21352, are available from:

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Springfield, Virginia 22161

Twelfth Aerospace Mechanisms Symposium

April 27-28, 1978

NASA Ames Research Center

Moffett Field, California 94035

PROCEEDINGS, NASA CP-2080, Accession No. N79-21374, are available from:

National Technical Information Service

Springfield, Virginia 22161

Thirteenth Aerospace Mechanisms Symposium

April 26-27, 1979

NASA Lyndon B. Johnson Space Center

Houston, Texas 77058

PROCEEDINGS, NASA CP-2081, Accession No. N79-22539, are available from:

National Technical Information Service

Springfield, Virginia 22161

Fourteenth Aerospace Mechanisms Symposium

May 1-2, 1980

NASA Langley Research Center

Hampton, Virginia 23665

PROCEEDINGS, NASA CP-2127, Accession No. N80-23495, are available from:

National Technical Information Service

Springfield, Virginia 22161

Fifteenth Aerospace Mechanisms Symposium

May 14-15, 1981

NASA George C. Marshall Space Flight Center

Marshall Space Flight Center, Alabama 35812

PROCEEDINGS, NASA CP-2181, Accession No. N81-22388, are available from:

National Technical Information Service

Springfield, Virginia 22161

Sixteenth Aerospace Mechanisms Symposium

May 13-14, 1982

NASA John F. Kennedy Space Center

Kennedy Space Center, Florida 32899

PROCEEDINGS, NASA CP-2221, Accession No. N82-23344, are available from:

National Technical Information Service

Springfield, Virginia 22161

Seventeenth Aerospace Mechanisms Symposium

May 5-6, 1983

Jet Propulsion Laboratory

Pasadena, California 91109

PROCEEDINGS, NASA CP-2273, Accession No. N83-24881, are available from:

National Technical Information Service

Springfield, Virginia 22161

Eighteenth Aerospace Mechanisms Symposium

May 2-4, 1984

NASA Goddard Space Flight Center

Greenbelt, Maryland 20771

PROCEEDINGS, NASA CP-2311, Accession No. N84-25078, are available from:

National Technical Information Service

Springfield, Virginia 22161

Nineteenth Aerospace Mechanisms Symposium

May 1-3, 1985

NASA Ames Research Center

Moffett Field, California 94035

PROCEEDINGS, NASA CP-2371, Accession No. (not yet assigned), are available from:

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